# Building Management System savic-net<sup>™</sup>G5

# Overview

savic-net<sup>™</sup> G5 is Azbil Corporation's latest<sup>\*</sup> building management system. The savic-net G5 system consists of the supervisory devices, primary devices, and secondary devices.

• Supervisory devices

Supervisory devices integrally monitor and control the whole system.

The Supervisory Controller, Network Attached Storage, etc. are included. The Supervisory Controller aggregates information from primary devices and provides the information required for comprehensive monitoring and control of the whole system to a Client PC.

• Primary devices

Primary devices communicate with the Supervisory Controller directly and control the air conditioning facilities, plumbing facilities, central plant facilities in buildings. The General Controller, Advanced Controller for Chiller Units, Advanced Controller for Pump Units, and Advanced Remote I/O Module are included.

#### Secondary devices

Secondary devices communicate with the primary devices and control facilities such as the FCU and VAV. The FCU Controller, Infilex VC, etc. are included.

Every product features state-of-the-art functions and the ability to build a proven quality system environment that provides stability for long periods of time.

To ensure support for operations by building management personnel, this system has a variety of functions that allow both general administrators and system administrators to use the system effectively and efficiently. This achieves an environment for monitoring, management and control operations that is more appropriate and beneficial than in the past.

In today's world where integrated systems using open communications are mainly used, more complicated system integration management is required in addition to the simple integration of point monitoring. When a variety of devices are connected, or interlocked control or data management extends across multiple devices, savic-net G5 will subsume the functional differences among the devices to realize control and operations without restrictions.

People around the world have a common desire to preserve the natural environment. With the wealth of energysaving functions that savic-net G5 offers, this system allows users to take the lead in reducing the energy consumption of building facilities.

\* As of October 2024.

### **Restrictions on Use**

This product was developed, designed, and manufactured for general air conditioning use.

Do not use the product in a situation where human life may be at risk or for nuclear applications in radiationcontrolled areas. If you wish to use the product in a radiation-controlled area, please contact Azbil Corporation.

Particularly when the product is used in applications like the following where safety is especially required, implementation of fail-safe design, redundant design, regular maintenance, etc., should receive appropriate consideration so that the product can be used safely and reliably.

- Safety devices for protecting the human body
- Start/stop control devices for transportation machines
- Aeronautical/aerospace machines

For system design, application design, instructions for use, or product applications, please contact Azbil Corporation. Azbil Corporation bears no responsibility for any result, or lack of result, deriving from the customer's use of the product.

### Features

• A user interface that provides a superior user experience (UX)

The user interface's functionality supports the effective use of the system.

Through its superior UX, this system provides appropriate and beneficial facility monitoring, management, and control.

Even general administrators who are not familiar with operations can intuitively figure out what screen or information they need to see next. On the other hand, system administrators are provided with an operational environment that streamlines complicated operations.

• Advanced system integration management using an open communication protocol

The BACnet or Modbus<sup>™</sup> open protocol is used as a communication platform for the system. This allows you to integrate and manage devices from various manufacturers, which have different functions. Since the Supervisory Controller, which manages the information of the whole system, subsumes differences in specifications (i.e., the presence or absence of functions such as totalized operation time and high/low limit monitoring) among the devices to be connected and carries out interlocked control of devices and data calculations, it can manage the whole system, including point status monitoring in addition to control and data storage functions, by using the common specifications.

Proven quality

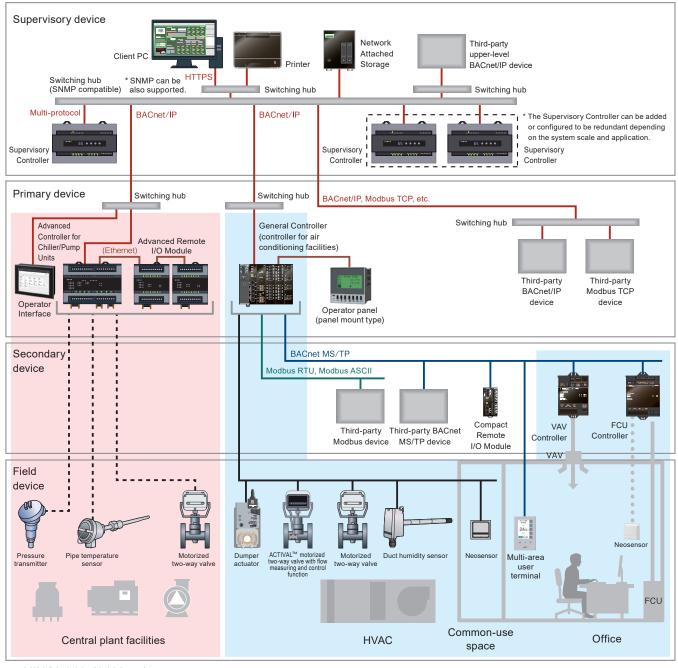
Azbil Corporation has been a leading company in building management systems in Japan for more than 50 years. Our high-quality products, which we designed and developed ourselves, have earned the trust of our customers through their long-term operational stability and our long-term maintenance services.

Energy saving technology

This system realizes energy-saving functionality based on technologies and know-how developed through more than 50 years of experience.

This promotes energy consumption reduction in buildings, contributing to conservation of the natural environment.

# System Configuration



VAV (Variable Air Volume) FCU (Fan Coil Unit)



Note: The mail server should be prepared by the customer.

| Device                                | Description   |
|---------------------------------------|---|
| Supervisory Controller                | A device that manages the whole savic-net G5 system.  |
|                                       | It receives point data possessed by a primary device and comprehensively                        |
|                                       | monitors and controls the facility equipment.   |
|                                       | In addition, the Supervisory Controller stores and manages the received                         |
|                                       | data and provides the data to a Client PC.  |
| Network Attached Storage              | The Network Attached Storage is a storage device connected to the                               |
| U U                                   | supervisory device network. It makes it possible to expand the amount of                        |
|                                       | data managed by the Supervisory Controller and to store the data for long                       |
|                                       | term in the savic-net G5 system.  |
| Client PC                             | A device that receives data such as status, alarms, measured values from                        |
|                                       | the Supervisory Controller and displays the data required for monitoring                        |
|                                       | and operation.  |
|                                       | Also, using the Client PC the user can output various types of data to a file                   |
|                                       | in order to analyze the data.   |
|                                       | The Client PC can be installed anywhere as long as it can be connected to                       |
|                                       |   |
|                                       | a network, and can be monitored simultaneously by multiple administrators in various locations. |
| Switching hub (SNMD compatible)       |   |
| Switching hub (SNMP compatible)       | When the switching hub is SNMP compatible, the Supervisory Controller                           |
| General Controller                    | can monitor information such as port link up/down.  |
| General Controller                    | It is a general-purpose controller that controls facility equipment such as                     |
|                                       | the building air conditioning equipment and plumbing equipment.                                 |
|                                       | By using the I/Os and control applications that have been built according to                    |
|                                       | the instrumentation, it realizes optimal control.   |
| Direct Mount I/O Module               | These are I/O modules dedicated for the General Controller.                                     |
|                                       | According to the applications, these products can be connected to the                           |
|                                       | General Controller in any combination.  |
| SAnet Interface Module                | This module is specifically for the General Controller.   |
|                                       | You can use this module to connect the Intelligent Component Series to                          |
|                                       | the General Controller.   |
| Setting-Device Connection Module,     | This module is specifically for the General Controller.   |
| Operator Panel (Integrated Type)      | You can use the Setting-Device Connection Module to connect the                                 |
| Module                                | operator panel (panel mount type) to the General Controller.                                    |
|                                       | In addition, the Setting-Device Connection Module and the Operator Panel                        |
|                                       | (Integrated Type) Module make it possible to connect Neopanel, Neoplate,                        |
|                                       | Neopanel Wireless, and Neosensor Wireless to the General Controller.                            |
| Compact Remote I/O Module             | An I/O module that allows to connect various I/Os, such as digital I/Os,                        |
|                                       | pulse input meter, remote control relay output, analog I/Os, RTD input via                      |
|                                       | suitable communication method.  |
|                                       | It is distributed in the various facilities in a building in order to monitor the               |
|                                       | operation status and alarms, turn the equipment on/off, and measure                             |
|                                       | value/volume.   |
| Advanced Controller for Chiller       | These are controllers that control the central plant system for buildings.                      |
| Units,                                | By using the I/Os and control applications that have been built according to                    |
| Advanced Controller for Pump Units    | the instrumentation, the controllers realize optimal control.                                   |
| · · ····· · · · · · · · · · · · · · · | Note Also Advanced Controller (for AHU) is available.   |

| Device                     | Description  |
|----------------------------|--|
| Advanced Remote I/O Module | An I/O module dedicated to the Advanced Controller.                          |
|                            | By adding inputs/outputs via the Advanced Remote I/O Module, the             |
|                            | Advanced Remote I/O Module can flexibly respond to operation changes         |
|                            | such as the addition of control applications or repair work. It enables to   |
|                            | connect the Advanced Controller for Chiller Units, Advanced Controller for   |
|                            | Pump Units, and Advanced Controller (for AHU).                               |
| Operator Interface         | An interface device for Advanced Controllers for Chiller Units, Advanced     |
|                            | Controllers for Pump Units, and Advanced Controllers (for redundancy).       |
|                            | Central plant equipment can be operated and managed using the central        |
|                            | monitoring unit and the Operator Interface.                                  |
|                            | Also, this product allows standalone operation without the central           |
|                            | monitoring unit.   |
| VAV Controller             | A VAV controller with an actuator, which controls in a sophisticated way the |
|                            | VAV units for AHUs in a building.  |
|                            | It sends unique energy-saving data to the General Controller or Advanced     |
|                            | Controller to which it is connected in order to largely improve its          |
|                            | controllability.   |
| FCU Controller             | A controller that starts or stops the FCUs, changes airflow volume, and      |
|                            | controls the valves.   |
|                            | Furthermore, it enables the setback operation, the interlock operation with  |
|                            | the outdoor air handling units, etc.   |
| Multi-area user terminal   | A terminal that allows the user to turn ON/OFF AHUs, display or set the      |
|                            | temperature, humidity and $CO_2$ concentration, set the airflow volume, and  |
|                            | perform other operations for each area or AHU in multiple areas.             |

# ■ Hardware Specifications for Major Devices

• Client PC



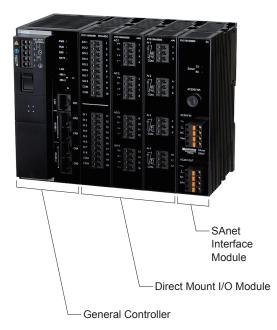
|             | Recommended specifications                 |                                 |  |
|-------------|--|---------------------------------|--|
|             | Number of                                  | Number of                       |  |
|             | monitoring points                          | monitoring points is            |  |
|             | is 30,000 or less                          | more than 30,000                |  |
| Item        | and regular                                | and regular                     |  |
|             | frequency of                               | frequency of changes            |  |
|             | changes in                                 | in present value is             |  |
|             | present value is                           | from 1,200/sec to               |  |
|             | 1,200/sec or less                          | 2,000/sec                       |  |
| CPU         | Intel <sup>®</sup> Core™                   | Intel <sup>®</sup> Core™        |  |
|             | i3-5157U or faster                         | i7-8700 or faster               |  |
| GPU         | Intel <sup>®</sup> HD 5500 or              | Intel <sup>®</sup> UHD Graphics |  |
|             | more                                       | 630 or more                     |  |
| Main memory | 8 GB min.                                  | 16 GB min.                      |  |
| Storage     | Free space of                              | Free space of                   |  |
|             | 70 GB min.                                 | 120 GB min.                     |  |
| Display     | FHD (1,920 x 1,080                         | pixels) recommended             |  |
|             | 1,366 x 768 (FWXGA) to 3,840 x 2,160       |                                 |  |
|             | (4K) supported                             |                                 |  |
|             | Note: If the size of pi                    | xel graphics such as char-      |  |
|             | acters does not change and the graphic     |                                 |  |
|             | Ŭ  | r the screen, the scroll bar    |  |
| OS          | will appear.                               | dowe 10 Dro 61 hit              |  |
| 05          | Windows 11 or Windows 10 Pro 64-bit        |                                 |  |
|             | (Japanese, English, Chinese [simplified],  |                                 |  |
|             | Korean, Chinese [traditional])             |                                 |  |
| Additional  | Microsoft Excel 2016, 2019, 2021           |                                 |  |
| software    | Note: Used for exporting data sheets, etc. |                                 |  |
| Soliwale    |  |                                 |  |

• Supervisory Controller



| Basic specifications |                                       |  |
|----------------------|---------------------------------------|--|
| Number of            | Up to 150,000 points per system       |  |
| points               | Up to 5,000 points per Supervisory    |  |
|                      | Controller                            |  |
| Power supply         | Rated voltage: 100–240 V AC, 50/60 Hz |  |
|                      | Power consumption: 60 VA max.         |  |
|                      | (240 V AC)                            |  |
| CPU                  | 64-bit                                |  |
| Main memory          | Model BH-101 SDRAM 2GB                |  |
|                      | Model BH-102 SDRAM 8GB                |  |
| Auxiliary            | Model BH-101 SATA SSD 32GB            |  |
| storage device       | Model BH-102 SATA SSD 64GB            |  |
| Communication        | BACnet/IP, Modbus/TCP, etc.           |  |
| Communication        | 100/1000 Mbps                         |  |
| speed                |                                       |  |
| Dimensions           | 230 mm (W) × 140 mm (H) × 80 mm (D)   |  |
| Weight               | 1.4 kg                                |  |

 General Controller, Direct Mount I/O Module, Setting-Device Connection Module, SAnet Interface Module



### General Controller

| Pagia aposificationa |                                       |  |
|----------------------|---------------------------------------|--|
| Basic specifications |                                       |  |
| Power supply         | Rated voltage: 100–240 V AC, 50/60 Hz |  |
|                      | Power consumption: 45 VA max.         |  |
| CPU                  | 32-bit                                |  |
| Memory device        | SDRAM 256 MB, Flash ROM 32 MB,        |  |
|                      | SRAM 2 MB                             |  |
| Communication        | n BACnet/IP                           |  |
|                      | Speed: 100 Mbps                       |  |
|                      | BACnet MS/TP, Modbus                  |  |
|                      | Speed: 4.8 kbps, 9.6 kbps, 19.2 kbps, |  |
|                      | 38.4 kbps, 76.8kbps                   |  |
| Dimensions           | 60 mm (W) × 140 mm (H) × 90 mm (D)    |  |
| Weight               | 0.45 kg                               |  |

Direct Mount I/O Module, Setting-Device Connection Module, SAnet Interface Module

| Basic specifications |                                    |         |
|----------------------|------------------------------------|---------|
| Number of I/Os       | □□ ■ "Model Numbers"               |         |
| Power retention      | Non-volatile memory                |         |
| Dimensions           | 30 mm (W) × 140 mm (H) × 90 mm (D) |         |
| Weight               | DI module                          | 0.16 kg |
|                      | DO module                          | 0.21 kg |
|                      | DO + DI module                     | 0.19 kg |
|                      | DOC module                         | 0.23 kg |
|                      | RRD module                         | 0.17 kg |
|                      | TOT module                         | 0.16 kg |
|                      | AO module                          | 0.17 kg |
|                      | Al module                          | 0.16 kg |
|                      | Pt module                          | 0.16 kg |
|                      | AI + Pt module                     | 0.16 kg |
|                      | MM module                          | 0.19 kg |
|                      | SAnet Interface Module             | 0.17 kg |
|                      | SD module                          | 0.16 kg |
|                      | OP module                          | 0.17 kg |

### Operator Panel (Panel Mount Type)

| Basic specifications |  |  |
|----------------------|--|--|
| Power supply         | Rated voltage: 100-240 V AC, 50/60 Hz    |  |
|                      | Power consumption: 8 VA                  |  |
| Display LCD          | Resolution:128 × 64 dots                 |  |
|                      | Gradation: Black and white, 2 gradations |  |
|                      | Backlight: LED backlight                 |  |
| Communication        | Transmission method: RS-485              |  |
| DP-bus               | Transmission speed: 4800 bps             |  |
|                      | Transmission distance: 10 m              |  |
|                      | Number of connectable units: 1           |  |
| Dimensions           | 960 mm (W) × 960 mm (H) × 910 mm (D)     |  |
| Weight               | 400 g                                    |  |



• Compact Remote I/O Module



| Basic specifications |  |  |
|----------------------|--|--|
| Number of I/Os       | □□ ■ "Model Numbers"                   |  |
| Power supply         | Rated voltage: 100–240 V AC, 50/60 Hz  |  |
|                      | Power consumption: 10 VA max.          |  |
| Communication        | BACnet MS/TP                           |  |
|                      | Speed: 9.6 kbps, 19.2 kbps, 38.4 kbps, |  |
|                      | 76.8 kbps                              |  |
| Dimensions           | 50 mm (W) × 100 mm (H) × 75 mm (D)     |  |
| Weight               | 0.23 kg                                |  |

• Advanced Controller for Chiller Units, Advanced Controller for Pump Units, Advanced Controller (for AHU)



| Basic specifications |  |  |
|----------------------|--|--|
| Number of I/Os       | 4 digital inputs, 8 universal inputs,    |  |
|                      | 6 digital outputs, and 6 analog outputs  |  |
| Power supply         | Rated voltage: 100–240 V AC, 50/60 Hz    |  |
|                      | Power consumption: 30 VA max.            |  |
| CPU                  | 32-bit                                   |  |
| Memory device        | SDRAM 256 MB, Flash ROM 32 MB,           |  |
|                      | SRAM 2 MB                                |  |
| Communication        | BACnet/IP                                |  |
|                      | Communication speed: 100/1000 Mbps       |  |
|                      | Proprietary protocol (Ethernet)          |  |
|                      | Communication speed: 100 Mbps            |  |
|                      | BACnet MS/TP or Modbus                   |  |
|                      | Communication speed: 4.8 kbps, 9.6 kbps, |  |
|                      | 19.2 kbps, 38.4 kbps, 76.8 kbps          |  |
| Dimensions           | 190 mm (W) × 140 mm (H) × 80 mm (D)      |  |
| Weight               | 1.1 kg                                   |  |

• Advanced Remote I/O Module



| Basic specifications |                                       |  |  |
|----------------------|---------------------------------------|--|--|
| Number of I/Os       | Model RJ-1101: 16 digital inputs      |  |  |
|                      | Model RJ-1102: 8 digital inputs +     |  |  |
|                      | 8 digital outputs                     |  |  |
|                      | Model RJ-1103: 4 universal I/Os       |  |  |
| Power supply         | Rated voltage: 100–240 V AC, 50/60 Hz |  |  |
|                      | Power consumption                     |  |  |
|                      | Model RJ-1101: 13 VA max.             |  |  |
|                      | Model RJ-1102: 14 VA max.             |  |  |
|                      | Model RJ-1103: 16 VA max.             |  |  |
| CPU                  | 32-bit                                |  |  |
| Memory device        | Flash ROM 512 kB, SRAM 96 kB          |  |  |
| Communication        | Proprietary protocol (Ethernet)       |  |  |
|                      | Communication speed: 100 Mbps         |  |  |
| Dimensions           | 110 mm (W) × 140 mm (H) × 80 mm (D)   |  |  |
| Weight               | 0.65 kg                               |  |  |

# • Operator Interface



| Basic specifications |   |                                |
|----------------------|---|--------------------------------|
| Power supply         | Input voltage: 24 V DC (21.6–26.4 V DC) |                                |
|                      | Power consumption: 12 W (at 24 V DC)    |                                |
|                      | Inrush current: 24 A max. (at 24 V DC)  |                                |
|                      | Ground wit                              | h 100 $\Omega$ or lower ground |
|                      | resistance                              |                                |
| CPU                  | 32-bit                                  |                                |
| Memory device        | 512 MB SDRAM, 4 GB SD card              |                                |
| External             | SD card slot for data collection × 1    |                                |
| memory               |   |                                |
| Display LCD          | Type: 8.4-ii                            | nch TFT LCD                    |
|                      | Size: 170.4                             | × 127.8 mm                     |
|                      | Resolution: 800 × 600 (SVGA)            |                                |
|                      | Colors: 65,536                          |                                |
| Screen               | Projected of                            | apacitive touch screen with    |
| operation type       | protective glass                        |                                |
| Communication        | Ethernet                                | 2 ports (LAN 1 and LAN 2*)     |
|                      |   | Function of ports:             |
|                      |   | Auto negotiation, MDI/MDI-X    |
|                      |   | auto recognition               |
|                      |   | Protocol: Proprietary          |
|                      |   | Speed: 100 Mbps                |
| Dimensions           | 220 mm (W) × 170 mm (H) × 50.5 mm (D)   |                                |
| Mass                 | 1.1 kg                                  |                                |

\* LAN 2 must not be used.

• VAV Controller with Actuator



| Controller    |  |  |  |
|---------------|--|--|--|
|               | Basic specifications                   |  |  |
| Power supply  | Rated voltage: 24 V AC                 |  |  |
|               | (20.4–27.6 V AC)                       |  |  |
|               | Consumption: 5 VA max.                 |  |  |
| Communication | BACnet MS/TP                           |  |  |
|               | Speed: 9.6, 19.2, 38.4, 76.8 kbps      |  |  |
|               | Format: Dedicated serial communication |  |  |
|               | (requires 12 V DC power)               |  |  |
|               | Speed: 100 bps                         |  |  |
| Dimensions    | 100 mm (W) × 150 mm (H) × 35.9 mm (D)  |  |  |
| Mass          | 0.3 kg                                 |  |  |

### Actuator (model MY8440C5200)

| Basic specifications |                                    |  |
|----------------------|------------------------------------|--|
| Power supply         | Rated voltage: 24 V AC             |  |
|                      | (19.2–28.8 V AC)                   |  |
|                      | Consumption: 5 W / 8 VA            |  |
| Communication        | Method: proprietary                |  |
| with controller      | Distance: 2 m                      |  |
|                      | Connectable units: 1               |  |
| Dimensions           | 187 mm (W) × 80 mm (H) × 62 mm (D) |  |
| Mass                 | 0.7 kg                             |  |



### • FCU Controller



|               | Basic specifications                      |  |  |
|---------------|---|--|--|
| Power supply  | Rated voltage: 100–240 V AC               |  |  |
|               | (85–264 V AC)                             |  |  |
|               | Power consumption:                        |  |  |
|               | Model WJ-1202W1000: 6 VA max.             |  |  |
| Communication | BACnet MS/TP                              |  |  |
|               | Communication speed:                      |  |  |
|               | 9.6 kbps, 19.2 kbps, 38.4 kbps, 76.8 kbps |  |  |
|               | Voltage transmission (digital user        |  |  |
|               | terminal)                                 |  |  |
|               | Communication speed: 100 bps              |  |  |
| Dimensions    | 140 mm (W) × 200 mm (H) × 47.9 mm (D)     |  |  |
| Weight        | 0.52 kg                                   |  |  |

#### • Multi-area user terminal

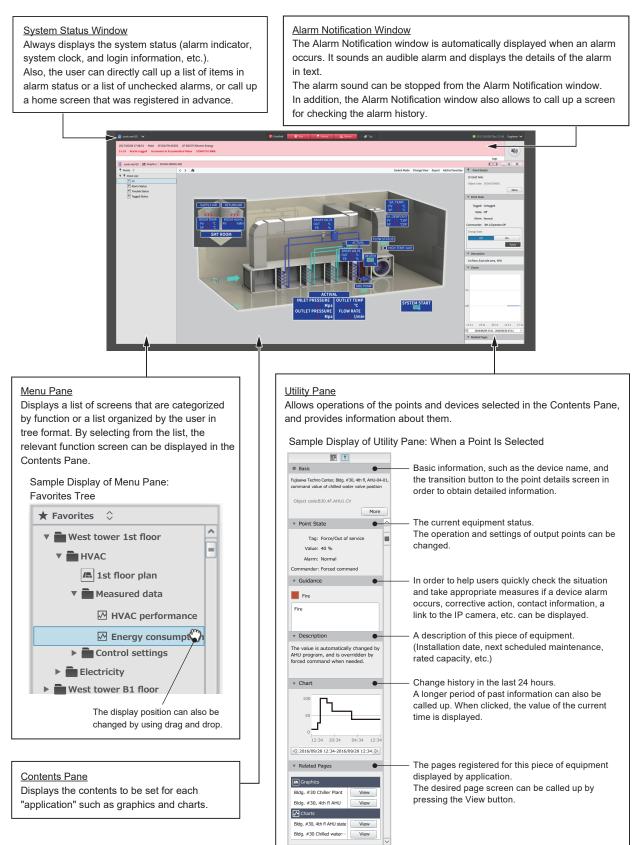


| Basic specifications |   |  |
|----------------------|---|--|
| Power supply         | Rated voltage: 24 V AC                    |  |
|                      | (20.4–27.6 V AC)                          |  |
|                      | Power consumption: 2.5 VA                 |  |
| Communication        | BACnet MS/TP                              |  |
|                      | Communication speed:                      |  |
|                      | 9.6 kbps, 19.2 kbps, 38.4 kbps, 76.8 kbps |  |
| Display LCD          | Type: 3.5-inch TFT-LCD                    |  |
|                      | Resolution: 320 × 240 (QVGA)              |  |
|                      | Backlight: LED backlight                  |  |
| Screen               | Capacitive touch switch                   |  |
| operation type       |   |  |
| Dimensions           | 70 mm (W) × 120 mm (H) × 15 mm (D)        |  |
| Weight               | 0.15 kg                                   |  |

# Overview of savic-net G5 User Operation Screen

To support daily operations of both general administrators, who mainly monitor alarms and do not operate savicnet G5 so frequently, and system administrators, who mainly perform setting, evaluation, and analysis, screens that are useful for both parties are provided.

General administrators: Screens providing guidance on basic operations to improve the quality of their operations. System administrators: Screens supporting sophisticated operations to make complicated operations more efficient.



# Overview of Functions

# • Monitoring

| Function           | Description   |
|--------------------|---|
| Graphics           | This function displays the status of each facility managed by the system in a graphical     |
|                    | format, such as a floor plan, cross section, or system diagram, in the Contents Pane.       |
|                    | It also refreshes the information on the displayed facility every time the state changes.   |
|                    |   |
|                    | Selecting a point on the Contents Pane displays the information about the selected point    |
|                    | in the Utility Pane. This allows the user to switch the point on/off, change the set value, |
|                    | and confirm the most recent trends and related programs. You can also select multiple       |
|                    | points to start or stop all equipment at once or change settings. In addition, you can list |
|                    | the symbols displayed on the graphic in the Contents Pane and start or stop all             |
|                    | equipment at once or change settings from the list.   |
|                    | The graphic size is enlarged/reduced automatically to fit the screen size.                  |
|                    |   |
|                    | The value and state of a point and point property information are indicated on the          |
|                    | background of a facility or floor with a changing dynamic symbol color or measurement       |
|                    | value/integration value, etc.   |
|                    | If you allocate a symbol for a screen transition on the graphic, selecting the symbol allow |
|                    | you to move to another graphic or a desired function screen.                                |
|                    | Dynamic symbol types:   |
|                    | String of (for) Digital Data  |
|                    | Shape of (for) Digital Data   |
|                    | Color of (for) Digital Data   |
|                    | Image of Digital Data   |
|                    | Animation   |
|                    | Animated GIF  |
|                    | String of (for) Analog Data   |
|                    | Shape of (for) Analog Data  |
|                    | Color of (for) Analog Data  |
|                    | Image of (for) Analog Data  |
|                    | Gradation   |
|                    | Bar of (for) Analog Data  |
|                    | Meter of (for) Analog Data  |
|                    | Page Jump   |
|                    | Date and Time   |
|                    |   |
|                    | Pie graph   |
|                    | Line graph  |
|                    | Bar graph   |
|                    | Thumbnail page jump   |
|                    | Color of (for) Digital Data (Point Property)  |
|                    | Shape of (for) Digital Data (Point Property)  |
|                    | String of (for) Analog Data (Point Property)  |
|                    | Bar of (for) Analog Data (Point Property)   |
|                    | Meter of (for) Analog Data (Point Property)   |
|                    | Point Alarm   |
|                    | Application Calling   |
| Graphics Generator | Users can create or edit graphics.  |
| optional)          | When the use of a building (regarding partitions, room names, etc.) is changed, you can     |
| · ·                | edit the screen as required.  |

| _                 | (2/3  |
|-------------------|---|
| Function          | Description   |
| Point list        | <ul> <li>Point data (name, status, alarm, tag, type, object code, commander, priority, alarm level,<br/>Monitor Elapsed Active Time: Elapsed Active Time, Monitor Elapsed Active Time: High<br/>Limit, Monitor Change of State Count: Change of State Count, Monitor Change of State<br/>Count: High Limit, Monitor State Duration Monitoring: State Duration, Monitor State<br/>Duration Monitoring: High Limit, and Monitor Operating Hours by Time Slot: Schedule<br/>Referred by Time Slot) are displayed in a list or tree format (when the object code has a<br/>hierarchical structure).</li> <li>Listed items can be filtered by type before being displayed. Points can be grouped and<br/>displayed in a list or tree format.</li> <li>You can export the displayed data as a CSV, XLSX or PDF file and save it in the desired<br/>folder on the client PC.</li> <li>Multiple points can be selected for batch ON/OFF operation or settings configuration.</li> <li>Users can: <ul> <li>Change the high/low limits</li> <li>Enable/disable monitoring Increment in Accumulated Value (specified period)</li> <li>Set/remove the Out of Service tag</li> </ul> </li> </ul> |
|                   | Enable/disable analog high/low limits   |
| Point details     | <ul> <li>The Point Details screen allows the user to display basic information and perform basic operations for each point. It also allows the user to change or view point attributes such as the point name, description, or alarm level, as well as perform special operations such as registration of forced commands, out of service, or meter replacement tags.</li> <li>You can register an operation confirmation message for points that start or stop the equipment of the critical facility and set the 3-action operation. Operation -&gt; Message Confirmation -&gt; Execution, to prevent erroneous operations.</li> <li>You can also temporarily block manual user operations on the screen regardless of the user scope with the setup operation on the Point Details screen.</li> </ul>  |
| Device list       | This screen displays information about the Supervisory Controller and primary devices managed by the system (device name, alarm status, object code, and IP address) as a list. It can display all the available devices or only the devices in an alarm state by default.  |
| Device details    | This screen displays detailed information about each of the Supervisory Controller and<br>primary devices managed by the system. Also, the device settings and the accumulated<br>data can be manually backed up.<br>The information is displayed in each of the tabs, which are named Basic, Network<br>Information, Shipping Information, About, Time Management Information, Service Parts<br>Information, and Malware Monitoring.<br>* The Malware Monitoring tab is displayed when the SVC malware monitoring function (optional) is in use.   |
| Automatic data    | The Supervisory Controller settings and accumulated data are automatically backed up  |
| backup (optional) | on the client PC every day or on a specified day of the week.   |

| Function            | (3/3<br>Description  |
|---------------------|--|
| Alarm processing    | When the system detects an alarm, this function automatically notifies the user of the       |
|                     | alarm in the following ways:   |
|                     | Sounds an alarm corresponding to the alarm level   |
|                     | • Displays the details of the alarm in the Alarm Notification window                         |
|                     | Turns on the indicator in the System Status window   |
|                     | • Forcibly displays a function screen that has been specified in advance, such as Graphics   |
|                     | Alarm output   |
|                     | E-mail Alarm Notification (optional)   |
|                     | • Uses the logging function to log the occurrence of alarms and alarm resets (optional)      |
|                     | The following monitored alarm items can be used:   |
|                     | Alarm input  |
|                     | • Command mismatch (Failure to start or stop at the ON/OFF point or state mismatch)          |
|                     | Analog hi/lo limits alarm (optional)   |
|                     | Point error  |
|                     | Device alarm (Abnormal or No Response)   |
|                     | and other items  |
| Analog high/low     | This function generates an alarm if the present value of an analog point (AI, AO, AV)        |
| limits monitoring   | deviates from the range of the high/low limits specified in advance (analog high/low limits  |
|                     | monitoring), or if the difference between the present value and the value of the point set   |
|                     | as a reference in advance (setpoint) exceeds a specified range (analog difference            |
|                     | monitoring). When the value returns to within the specified range, it returns the alarm to   |
|                     | its normal state.  |
|                     | You can use this function to monitor if the environment monitored, such as chilled/hot       |
|                     | water temperature, is in the correct range or not.   |
|                     | This function enables one of the following monitoring; high limit only, low limit only, high |
|                     | and low limits. Also, when an interlock point satisfies the conditions, each of the          |
|                     | monitoring can be enabled.   |
| Increment in        | Specify the period to calculate the increment (monitoring cycle) and high limits for the     |
| accumulated value   | accumulation point (AC) in advance.  |
| (during a specified | If the increment value exceeds high limits during the calculation period, this function      |
| period) monitoring  | generates alarms. When the calculation period ends, the alarms are cleared.                  |
| (optional)          | You can set up to three high limits.   |
| State duration      | This function counts time when the digital points to be monitored (BI, BO, BV, MI, MO,       |
| monitoring          | MV) are continuously in the active state (normally ON) or the inactive state (normally       |
| (optional)          | OFF) and it generates an alarm if the count reaches the high limit specified in advance.     |
|                     | This function helps keep the user from forgetting to stop equipment manually.                |
| Elapsed active time | This function displays the period of time during which the monitoring target digital points  |
| monitoring          | (BI, BO, BV, MI, MO, MV) were in the active state (normally ON) as the elapsed active        |
|                     | time on the Point Details screen. When the elapsed active time exceeds the preset            |
|                     | threshold value, it is possible to issue an alarm.   |
|                     | This information is useful for estimating the degree of deterioration of the equipment and   |
|                     | developing a maintenance plan and parts replacement timing.                                  |
| Change of state     | This function displays the number of times the monitoring target digital points (BI, BO, BV, |
| count monitoring    | MI, MO, MV) have changed from the active state (normally ON) to the inactive state           |
|                     | (normally OFF) as the Change of State Count on the Point Details screen.                     |
|                     | When the change of state count exceeds the preset threshold value, an alarm will be issued.  |
|                     | This information is useful for estimating the degree of deterioration of the equipment and   |
|                     | developing a maintenance plan and parts replacement timing.                                  |

### • Management

| Management               | (1/3  |
|--------------------------|---|
| Function                 | Description   |
| Operating hours by       | This function measures the time in which the monitoring target digital points (BI, BO, BV,  |
| time slot monitoring     | MI, MO, MV) are active in two time slots (Time Slot 1 / Time Slot 2).   |
| (optional)               | You can use this function to perform count correction by taking into account the delay  |
|                          | from the scheduled time and count control due to the state of count inhibiting points, and  |
|                          | to set conditions to inhibit counting by the commander of a monitoring target point   |
| Voice Alarm              | If a voice alarm message is preset instead of an alarm sound, it gives details about the  |
| Message (optional)       | alarm when the alarm is triggered. Different voice messages can be set according to the alarm level.  |
| E-mail alarm             | When an alarm is generated by the points, devices, or applications, this function notifies  |
| notification (optional)  | you of occurrence of the alarm, its status change, and its recovery by e-mail.  |
|                          | Even when the building manager does not operate the Client PC or he/she is out of office or away for a patrol, this function enables him/her to check occurrence of an alarm.   |
| Linked Stop of Client    | <ul><li>* The mail server and DNS server must be supplied by the customer.</li><li>If a user in a group stops the alarm sound, it stops on the client PCs of other logged-in</li></ul>  |
| Terminals Alarm<br>Sound | users in the same group.  |
| Point Guidance           | Guidance can be set for points. You can write corrective actions for alarms in the  |
| (optional)               | Guidance area so that users know how to deal with alarms.   |
| (optional)               | If an alarm occurs, the instructions in the Guidance can be displayed in the utility pane. If   |
|                          | a high alarm occurs, the forced display window or guidance can be automatically   |
|                          | displayed to prevent delay or failure to properly respond. Guidance is displayed in the   |
|                          | browser.  |
| Value/state change       | This function accumulates the following information of the target point in the Supervisory  |
| recording                | Controller and displays it as the latest history in the Utility Pane.   |
|                          | • Time and other data when there is a change from the previous value during a periodic scan   |
|                          | • COV (time and other data received by the Supervisory Controller)  |
|                          | • Event (Time of occurrence and other data)   |
|                          | Manually input value and time (Manual Input of Points function)   |
|                          | The accumulated information is displayed and used for charts, flexible reporting, the data  |
|                          | aggregation function, etc.  |
| Data aggregation         | This function aggregates and stores the on-the-hour value, increment value, maximum   |
| 00 0                     | value, minimum value, and average value from the data collected by the value/state  |
|                          | change-recording function for each hour, day, and month.  |
|                          | In addition, when Monitor Elapsed Active Time, Monitor Change of State Count, and   |
|                          | Monitor Operating Hours by Time Slot are enabled by the Point Details function, the   |
|                          | elapsed active time, the change of state count, the elapsed active time in time slot 1, and   |
|                          | the elapsed active time in time slot 2 are also aggregated and stored.  |
|                          | The stored data can be displayed by using the daily, weekly, monthly, and yearly reports,   |
|                          | charts, graphics, and flexible reporting functions. In addition, by registering an interlock  |
|                          | point and specifying a desired status, only the time period during which the device is in   |
|                          | the specified status can be included in the calculation.  |
| Manual input of points   | This function records the measured values and amount of the meters, sensors, and other instruments not monitored by the system at AC and AV points for manual input set using the engineering tool during patrol or on other occasions.                                 |
|                          | You can specify the date and time and manually input data to accumulate and aggregate it.<br>Processed data of points for Manual Input of Points can be registered for Numerical<br>Operation (Operation with Processed Value), Charts, Reports, and Meter Reading, for |
|                          | example.  |

| Function              | (2/3<br>Description  |
|-----------------------|--|
| Charts                | This function shows time-series variations in power, temperature, operation status (ON/            |
| ondito                | OFF), etc., that have been collected by the value/state change-recording or data                   |
|                       | aggregation function in time-series (oblique lines/rectangles) or bar (bar/stacked) charts.        |
|                       | It also shows data accumulated by the data aggregation function in non-time-series                 |
|                       | charts (scatter plot, pie chart, and histogram).   |
|                       | In the time-series graph, scatter plot, pie chart, and histogram, you can specify two              |
|                       | periods and display data for the periods.  |
|                       | In addition to using data that has been accumulated within the system, this function can use       |
|                       | data that was output from the Supervisory Controller by the Data Archiving and Retrieval           |
|                       | function and was retrieved by the client PC (retrieved data), and can display it in graphs.        |
|                       | Deselecting the $\square$ checkbox in the Legends allows users to easily hide specific data.       |
|                       |  |
|                       | The raw data and process data that are used for a graph can be manually output to a                |
|                       | CSV file (raw data can be automatically output). The displayed graph and data can be               |
|                       | manually output to an Excel or PDF file.   |
| Daily/weekly/monthly/ | The data aggregation function generates tabular report files from data which is                    |
| yearly reports        | accumulated and totaled. The function then accumulates such files over a certain period            |
|                       | of time.   |
|                       | It also allows you to automatically or manually output the following data that has been            |
|                       | totaled by the data aggregation function into a file in CSV, XLSX, or PDF format.                  |
|                       | Daily reports (hourly data, daily aggregated data)   |
|                       | Weekly reports (daily data, weekly aggregated data)  |
|                       | Monthly reports (daily data, monthly aggregated data)  |
|                       | Yearly reports (monthly data, yearly aggregated data)  |
| Reports format editor | This function allows you to change display formats for Daily Reports, Weekly Reports, Monthly      |
| (optional)            | Reports, and Yearly Reports to ones that are suitable for your business so as to perform daily     |
|                       | operations more efficiently. You can edit the formats while the system is in operation.            |
| Meter reading         | You can use this function to manually or automatically collect and display data on the             |
| (optional)            | reading day in a list. Data is read from meters (electricity, water, gas, etc.) using functions    |
|                       | for monitoring the elapsed active time and operating hours by time slot, and it is                 |
|                       | accumulated by the Data Aggregation function.  |
|                       | The consumption is calculated based on the difference with the data of the last meter              |
|                       | reading.   |
|                       | The data being displayed can be output as a CSV or PDF file.                                       |
| Logs                  | This function accumulates and manages operation information on alarms, changes of                  |
|                       | state, on/off, and changes of setpoints, as log records.   |
|                       | It offers a search function that allows you to extract "All," "Alarms," or "Unacked Alarms"        |
|                       | or specify conditions to narrow data down to the information that is really needed and             |
|                       | display the data. You can automatically or manually output the displayed data in CSV,              |
|                       | XLSX, or PDF format.   |
|                       | You can display unacknowledged alarms using the icon and acknowledge alarms or leave               |
|                       | them unacknowledged in the Utility Pane.   |
|                       | A comment can be appended to each item of data.  |
|                       | * Unacknowledged alarms are not displayed in Logs when the alarm summary is enabled. Alarms cannot |
|                       | be acknowledged or left unacknowledged, either.  |
| Logs format editor    | You can perform daily operations more efficiently by adjusting the format of XLSX or PDF           |
| (optional)            | files output from logs according to the actual application.  |
|                       | You can edit the formats while the system is in operation.   |
| No log comment        | This function disables the entering of log comments in the system.                                 |
| (optional)            | When the use of log comments is prohibited, the comment field will always be blank. You            |
|                       | can hide comment columns in the setting mode.  |

|                     | (3/3   |
|---------------------|--|
| Function            | Description  |
| No change of point  | This function prohibits changing the enable/disable setting for Save Operation and State           |
| logging             | Change to prevent users from temporarily recording or interrupting the recording of                |
| (optional)          | operation logs or change of state logs.  |
| PDF edit permission | This function disables editing, filtering, and copying PDF files by setting a random               |
| update              | authorization password for all PDF files that are manually or automatically output.                |
| (optional)          |  |
| No XLSX output      | This function prohibits the output of XLSX files with Reports or Logs so that it is difficult to   |
| (optional)          | create report or log materials using data that is different from the actual data.                  |
| Data archiving and  | Data archiving saves change accumulation, data aggregation, and logs stored in each                |
| retrieval           | Supervisory Controller to the external storage automatically or manually for each day.             |
| (optional)          | Data retrieval reads a specified period of data that was saved in external storage on the          |
|                     | client PC and shows the data in charts, reports, or logs.  |
| Flexible reporting  | This function creates a report in XLSX or CSV format using data (change accumulation,              |
| (optional)          | data aggregation, logs) collected by the system. When editing the format, you can specify          |
|                     | the desired type of report (daily, monthly, or yearly), output format (XLSX or CSV),               |
|                     | accumulated data, point type to be included, and data interval. By editing to produce the          |
|                     | report format that best suits your business, you can improve work efficiency.                      |
|                     | You can edit the formats while the system is in operation.   |
| Time-series data    | You can specify a period for raw data (1-minute, 10-minute, and 30-minute cycle) and               |
| export (optional)   | processed data (hourly, daily, monthly, and yearly basis) accumulated across the system            |
|                     | to output the relevant data to a CSV file.   |
|                     | Data stored in the Network Attached Storage (NAS) can also be output.                              |
| Use of external     | This function stores the following system data in the Network Attached Storage.                    |
| storage (optional)  | Historical data from the Supervisory Controller  |
|                     | Data output from Client PCs  |
|                     | Engineering data   |
|                     | In the event of a power failure, the Supervisory Controller outputs a shutdown command             |
|                     | to protect data safety.  |
| Alarm Summary       | Alarm Summary lists unacknowledged alarms, acknowledged alarms, and                                |
|                     | unacknowledged alarm resets with their timestamps, statuses at the time of generation,             |
|                     | and present values in descending order so that the latest alarm is displayed on the first          |
|                     | row.   |
|                     | If a new alarm occurs after alarms are listed when Auto Refresh is enabled, a new row is           |
|                     | added and displayed at the beginning of the list.  |
|                     | You can narrow down conditions using the filter in the column header of the list to display        |
|                     | the alarms that meet the conditions.   |
|                     | When you select an event (row) in the list to acknowledge it, that event is regarded as an         |
|                     | acknowledged alarm reset, so it is deleted from the list and recorded in the log with the          |
|                     | timestamp at the time of acknowledgment. The acknowledged event cannot be returned                 |
|                     | to the unacknowledged state.   |
|                     | * Use the Azbil engineering tool to enable or disable the alarm summary. When the alarm summary is |
|                     | enabled, alarms cannot be acknowledged or left unacknowledged in Logs.                             |

### • Control

| Function                | (1/3<br>Description   |
|-------------------------|---|
| Calendar                | This function is used in combination with the schedule function.  |
| oulondui                | It registers control patterns that are not part of the pattern for each day of week, such as                |
|                         | holidays and long-term vacations, into the patterns of events schedule.                                     |
|                         | You can set them to be shown to or hidden from operator workstations per program when                       |
|                         | operator workstations (upper-level devices) are connected.  |
| Schedule                | This function automatically starts/stops devices or changes settings (presetting daily                      |
| Schedule                | settings, changing settings as the season transforms, etc.) according to the preset                         |
|                         | schedule. It generates an execution schedule for a week from today based on the weekly                      |
|                         |   |
|                         | master schedule for which the regular schedules for each day of week are set, and                           |
|                         | deploys it to the primary device connected to the Supervisory Controller.                                   |
|                         | In combination with the calendar function, it can generate an execution schedule based                      |
|                         | on the patterns of events master schedule for which specific days such as holidays,                         |
|                         | special week days, and summer holidays are set, and deploy it to the primary device                         |
|                         | connected to the Supervisory Controller.  |
|                         | If the primary device does not have the schedule function, the Supervisory Controller can                   |
|                         | execute the control.  |
|                         | You can set them to be shown to or hidden from operator workstations per program when                       |
|                         | operator workstations (upper-level devices) are connected.  |
| Schedule integration    | This function uses multiple operation schedules as input, integrates their active times and                 |
| (optional)              | inactive times, and creates an integrated operation schedule.   |
|                         | Sample use: creating a schedule for shared areas such as an entrance hall                                   |
| Numerical operation     | You can carry out a numeric operation using various values managed by the system and                        |
| (optional)              | output the result to a point.   |
|                         | Data useful for management such as the total and average values can be generated from                       |
|                         | the values of multiple measuring devices.   |
|                         | Numerical operations are broken down into present value operations in which the present                     |
|                         | value of the specified point is input and operated on and processed value operations in                     |
|                         | which the raw data type and data set of the specified point is set and then the processed                   |
|                         | value is input and operated on.   |
| Conditional operation   | You can create a program that, when a specific condition is satisfied, initiates device                     |
|                         | interlocking, combines operations, orders input, or makes automatic settings changes.                       |
|                         | This allows you to reduce the workloads for operation management at each facility and                       |
|                         | take emergency action in a unified way.   |
|                         | Es Interlocking of the facility equipment such as AHUs and lighting, preventing facility equipment starting |
|                         | up simultaneously, and automatic change of room temperature settings when a specific condition is           |
| •• • •                  | satisfied   |
| Alarm output            | When an alarm (any alarm Level) occurs in any user scope (group of applications, points,                    |
|                         | or devices) in the system, the BO and BV points are turned ON.  |
|                         | The alarm light can be turned on when an alarm occurs in an AHU.  |
| Fire control (optional) | When the input point, which monitors the occurrence and recovery of fire, detects a fire alarm,             |
|                         | the system notifies the user of the occurrence of fire by lighting the fire indicator in addition to        |
|                         | sounding an alarm, displaying the alarm notification message, and logging the event.                        |
|                         | Also, it is possible to output the default value to the multiple output points when fire occurs.            |
|                         | When fire occurs, can stop the AHUs or forcibly unlock the electric locks.                                  |
|                         | You can set them to be shown to or hidden from operator workstations when operator                          |
|                         | workstations (upper-level devices) are connected.   |
|                         | When show to operator workstations is set, the fire control state can be notified to the                    |
|                         | operator workstations, the fire control cancel command can be received from the operator                    |
|                         | workstations, and fire control can be canceled from the Supervisory Controller.                             |

| Function                              | (2/3<br>Description   |
|---------------------------------------|---|
| Power failure                         | If the Supervisory Controller is backed up by the UPS unit, the following operation will be           |
| recovery control                      | executed:   |
|                                       | 1. Detection of power failure   |
|                                       | 2. Alarm notification of power failure  |
|                                       | 3. Processes when power failure occurs  |
|                                       | 4. Processes for operating generator  |
|                                       | 5. Processes for recovering power   |
|                                       | 6. Cancellation of alarm notification for power failure   |
|                                       | You can set them to be shown to or hidden from those operator workstations when                       |
|                                       | operator workstations (upper-level devices) are connected.  |
|                                       | When show to operator workstations is set, the power failure recovery control state can               |
|                                       | be notified to the operator workstations, the power recovery control command can be                   |
|                                       | received from the operator workstations, and the power failure recovery control can be                |
|                                       | canceled from the Supervisory Controller.   |
| Generator load                        | When supplying power from an emergency independent power generator installed in a                     |
| distribution (optional)               | building in the event of a power failure, this function controls the power load so that the           |
| , , , , , , , , , , , , , , , , , , , | capacity of the generator will not be exceeded.   |
|                                       | Using generator load control objects that comply with IEIEJ-G-0006:2006, it is possible               |
|                                       | to link to other companies' BACnet devices and to implement control based on control                  |
|                                       | level notifications.  |
| Power Factor                          | This function cancels out the phase lag caused by the load of a motor, etc., by adding                |
| Correction (optional)                 | phase-advancing capacitors. By keeping the power factor at nearly 100 %, it is possible               |
| ,                                     | to purchase electricity at a discount (depending on the electric company and/or country).             |
|                                       | This function supports both the case where multiple phase-advancing capacitors have                   |
|                                       | different capacitances and the case where they all have the same capacitance.                         |
| Power demand                          | This function consists of monitoring, control, and history data management functions,                 |
| control (optional)                    | including the output of history data.   |
|                                       | Also, using power demand monitoring and control objects that comply with                              |
|                                       | IEIEJ-G-0006:2006, it is possible to link to other companies' BACnet devices and to                   |
|                                       | implement control based on control level notifications.   |
| Duty cycle control                    | In order to reduce the energy consumption of the AHUs and chillers, it executes the duty              |
| (optional)                            | cycle for operating equipment such as the AHU by the schedule, etc.                                   |
|                                       | Depending on the specified room temperature or CO <sub>2</sub> concentration, it is possible to force |
|                                       | the equipment that was stopped by the duty cycle operation to restart.                                |
| No humidification                     | This function stops humidification before stopping AHUs to let them dry to keep AHUs                  |
| (optional)                            | sanitary.   |
| (                                     | It outputs No Humidification earlier than the stop time based on the schedule program or              |
|                                       | the stop time according to Optimum Start/Stop of HVAC.  |
| Optimum start/stop of                 | The optimum start/stop function treats the schedules set for the air conditioning                     |
| HVAC (optional)                       | equipment as occupancy hours and learns operation characteristics at start and stop times.            |
|                                       | It then starts the equipment earlier than the scheduled time so that the room temperature             |
|                                       | reaches the set range when room occupation begins.  |
|                                       | It eliminates wasteful energy use by stopping the equipment earlier than the scheduled                |
|                                       | time while maintaining the programmed room temperature until the occupancy period                     |
|                                       | ends.   |

| Function              | (3/3<br>Description  |
|-----------------------|--|
| Optimum start/stop of |  |
| central plant         | of HVAC function.  |
| (optional)            | This function starts the central plant ahead of the fastest optimum start/stop time for the      |
| (000000)              | AHU among other AHUs in the same central plant system by the time set for Minutes to             |
|                       | Advance.   |
|                       | It also stops the central plant ahead of the latest optimum stop time of the AHU among           |
|                       | other AHUs in the same central plant system by the time set for Minutes to Advance.              |
| VWV demand            | This function calculates the VWV demand by calculating the total weight of AHUs in each          |
| calculation           | control state (insufficient, excessive, operating) and the total weight of registered AHUs       |
| (optional)            | based on the control states and the weighting for each AHU.                                      |
|                       | The calculated result is used as input for the VWV Pressure Calculation.                         |
|                       | The combination of VWV Demand Calculation and VWV Pressure Calculation executes                  |
|                       | VWV control that achieves energy savings by reducing the force exerted by the water              |
|                       | pumps for the central plant while maintaining a comfortable indoor environment.                  |
| VWV pressure          | This function determines whether it is necessary to change the pressure setpoint for the         |
| calculation           | water supplied from the central plant based on the demand from the AHU systems, which            |
| (optional)            | is aggregated by the VWV demand calculation function. As necessary, it determines the            |
|                       | demand for change (increase, decrease, keep) and calculates the pressure setpoint.               |
|                       | The combination of VWV Demand Calculation and VWV Pressure Calculation executes                  |
|                       | VWV control that achieves energy savings by reducing the force exerted by the water              |
|                       | pumps for the central plant while maintaining a comfortable indoor environment.                  |
| DDC program           | A DDC program is a control program that operates on Advanced Controller or General               |
| (optional)            | Controller.  |
|                       | Premade DDC program blocks can be combined freely to define the desired control logic.           |
|                       | The following various types of information can be handled as its input/output.                   |
|                       | <ul> <li>The PV values, commands, and other properties of I/O objects</li> </ul>                 |
|                       | • Properties of the objects in the relevant Advanced Controller or General Controller.           |
|                       | Device information, secondary devices, cooling and heating modes, power restoration information, |
|                       | time, calendar, etc. <ul> <li>Settings of other networked devices</li> </ul>                     |
| VAV control           | When a VAV Controller is installed on the VAV unit, it performs VAV air flow control.            |
|                       | In addition, by connecting a room temperature sensor, air flow can be controlled so that         |
|                       | the room temperature is kept at a set value.   |
|                       | By controlling the VAV in the Open direction to minimize the static pressure, this function      |
|                       | minimizes the operating power of the air conditioning fans.                                      |
|                       | It also changes the supplied air temperature to the optimal value automatically to realize       |
|                       | both comfort and energy efficiency.  |
| Extension allowed     | This function extends the operation time of predetermined equipment in response to a             |
|                       | request from the multi-area user terminal (MUT).   |
|                       | To extend the operation, specify the following settings.   |
|                       | Equipment schedule:     Operation schedule   |
|                       | Restricted UT schedule:     Setting to allow or prohibit operations in each area                 |
|                       | according to the schedule.   |
|                       | • MUT timer management schedule: Setting to change the operation of the MUT in each              |
|                       | time slot. (This setting applies to each MUT.)   |

### • Others

| Function            | Description   |
|---------------------|---|
| User management     | User management contains the following functions:   |
|                     | User registration and deletion  |
|                     | Login ID and password settings  |
|                     | Enabling/disabling users  |
|                     | • Setting or not setting user expiration; if set, specify the expiration  |
|                     | Login condition setting   |
|                     | • Limitation of the points and functions that can be viewed or operated by each user  |
|                     | (user scope and access level settings)  |
|                     | • User-specific settings (e.g., language settings)  |
|                     | Automatic logout after a certain time has passed with no operation having been executed   |
|                     | Alarm notification settings   |
| Redundancy          | In addition to the Supervisory Controller (active), a backup unit (standby) of the Supervisory  |
| (optional)          | Controller is installed, and if an error occurs in the Supervisory Controller or the network,   |
| (optional)          | the system functions are quickly and automatically restored by the backup unit.   |
|                     | In normal operation mode, monitoring is always executed by the active unit, and data is   |
|                     | copied to the standby unit in a short cycle. Communication load on the primary devices  |
|                     |   |
|                     | can be reduced to be equal to that of during non-redundancy, and the setting data and   |
| Full concerns and a | logs accumulated in the standby unit can be consistent with those of the active unit.   |
| Full-screen mode    | When starting a Client PC, you can automatically log in as the default user set for the PC  |
| (optional)          | and display the screen that has been registered as the home screen in full-screen mode  |
|                     | (only the application window is maximized).   |
|                     | As an alternative to a graphics panel, etc., a graphics screen can be set to always show  |
|                     | on the display in full-screen mode.   |
| Slideshow           | By automatically displaying various graphics and chart screens used for daily monitoring  |
| (optional)          | at a set interval, the opening operation for each screen can be omitted, improving work   |
|                     | efficiency.   |
|                     | By using this function with full-screen mode, you can sequentially display screens in full-   |
|                     | screen mode.  |
|                     | This allows you to show the energy use status of buildings and other information to   |
|                     | visitors on a display.  |
| Screen capture      | This function outputs a screenshot of the entire client PC screen to a PNG file or prints it.   |
|                     | * This function cannot be used if the display is in full-screen mode.   |
| SVC malware         | This function uses the whitelist-based malware protection tool to prevent the execution of  |
| monitoring          | unauthorized programs on the Supervisory Controller and sends alarm notifications.  |
| (optional)          | * The whitelist-based malware protection tool allows the execution of authorized monitoring, management,  |
|                     | and control applications that are required to execute programs on the OS in the Supervisory Controller<br>and blocks the execution of other applications. |
|                     | Note: If your version of the Supervisory Controller is 2.3 or earlier, you cannot purchase the SVC Malware  |
|                     | Monitoring (optional). If you wish to purchase SVC Malware Monitoring, please upgrade the Supervisory   |
|                     | Controller to version 2.4 or higher first.  |
| Charge calculation  | This software adds a charge calculation function to the client PC for use in billing.   |
| software -charge    | A report can be output for each tenant showing the amount of the bill. The amount is  |
| calculation-        | based on the use of heating and lighting (measured by the Supervisory Controller meter-   |
| (optional)          | reading function), fixed costs, manual input charges, etc.  |
| Charge calculation  | This function outputs the bill calculated by the Charge Calculation Software in the   |
| software -billing-  | specified format.   |
| (optional)          |   |
| System portal for   | Alarms from multiple savic-net G5 systems can be monitored remotely at one place. The   |
| wide-area           | monitoring screen for each system can be started.   |
| management          | Note: A network contract with a carrier is required.  |
| (optional)          |   |

(1/2)

# Model Numbers

### • Supervisory Controller (Model BH-1)

| Product name (application name)         Model number           savic-net <sup>™</sup> G5 Supervisory Controller (without azbil logo)         BH-101G0W0000           savic-net <sup>™</sup> G5 Supervisory Controller (without azbil logo)         BH-101G0W0000           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 500         BS-108D50001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 500         BS-108D50001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 500         BS-108D50001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 500         BS-108D50001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108D20001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108D20001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108D20001G           savic-net <sup>™</sup> G5 Supervisory Controller. BAckage software model 2000         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller. BAckage software model 2000         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller. Mackage software model 3000         BS-10AD01201G           savic-net <sup>™</sup> G5 Supervisory Controller. Mackage software model 3000         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller. Mackage software model 3000         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller. Mackage softwar  |   | (1/2)         |
|---|---|---------------|
| BH-101GW0000-<br>BH-102GW0000         BH-101GW0000-<br>BH-101GW0000           savic-net <sup>™</sup> G5 Supervisory Controller (without azbil logo)         BH-101GW0000-<br>BH-101GW0000-<br>BH-101GW0000-<br>BH-101GW0000-<br>BS-108E00001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108E00001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108E00001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108E00001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108E0001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108E0001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 2000         BS-108E0001G           savic-net <sup>™</sup> G5 Supervisory Controller. Package software model 20000         BS-108E01001G           savic-net <sup>™</sup> G5 Supervisory Controller. BACnet communication between Supervisory Controller         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller. Redundancy         BS-10AD1001G           savic-net <sup>™</sup> G5 Supervisory Controller. Redundancy         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller. Simultaneous logins         BS-10AD00013G           savic-net <sup>™</sup> G5 Supervisory Controller. Simultaneous logins         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller. File-Xeren mode         BS-10AD000011G           savic-net <sup>™</sup> G5 Su  | Product name (application name)   | Model number  |
| BH-101G0N0000         BH-101G0N0000           savic-net <sup>TW</sup> G5 Supervisory Controller: Package software model 500         BS-108650001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Package software model 1000         BS-108050001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Package software model 2000         BS-108050001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Package software model 500         BS-10820001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Package software model 5000         BS-10820001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Package software model 2000         BS-10820001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Package software model 30000         BS-10820001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Backage software model 30000         BS-10820001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Backage software model 30000         BS-10820001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Backage software model 30000         BS-10AD13001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Mackage software model 30000         BS-10AD0001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Mackage         BS-10AD0001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Silve communication between Supervisory Controller         BS-10AD0001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Silve favorage         BS-10AD0001G           savic-net <sup>TW</sup> G5 Supervisory Controller: Silve favorage  | savic-net™ G5 Supervisory Controller  |               |
| savic-net <sup>™</sup> 65 Supervisory Controller (without azbil logo)         BH-101G0N0000-<br>BH-101G0N0000-<br>BH-101G0N0000-<br>BS-108050001G           savic-net <sup>™</sup> 65 Supervisory Controller: Package software model 500         BS-108050001G           savic-net <sup>™</sup> 65 Supervisory Controller: Package software model 5000         BS-1081500001G           savic-net <sup>™</sup> 65 Supervisory Controller: Package software model 5000         BS-1081500001G           savic-net <sup>™</sup> 65 Supervisory Controller: Package software model 5000         BS-1081500001G           savic-net <sup>™</sup> 65 Supervisory Controller: Package software model 2000         BS-108120001G           savic-net <sup>™</sup> 65 Supervisory Controller: Package software model 2000         BS-1082X0001G           savic-net <sup>™</sup> 65 Supervisory Controller: Package software model 2000         BS-1082X0001G           savic-net <sup>™</sup> 65 Supervisory Controller: BACnet communication between Supervisory Controller         BS-10AD12001G           savic-net <sup>™</sup> 65 Supervisory Controller: SNMP communication between Supervisory Controller         BS-10AD14001G           savic-net <sup>™</sup> 65 Supervisory Controller: SNMP communication between Supervisory Controller         BS-10AD00011G           savic-net <sup>™</sup> 65 Supervisory Controller: Returnacy         BS-10AD000016           savic-net <sup>™</sup> 65 Supervisory Controller: Nutomatic Data Backup         BS-10AD000016           savic-net <sup>™</sup> 65 Supervisory Controller: Nutomatic Data Backup         BS-10AD000016           savic-net <sup>™</sup> 65 Supervisory Controller: SVC malware moni  |   |               |
| BH-101C0N0000           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 500         B5-10B050001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 1000         B5-10B100001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 2000         B5-10B50001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 2000         B5-10B50001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 2000         B5-10B5X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 2000         B5-10B2X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 30000         B5-10B2X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 30000         B5-10B2X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         B5-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         B5-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins         B5-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins         B5-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode         B5-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins         B5-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: SVC malware monitoring         B5-10AD000011G           savic-net <sup>™</sup> G5 Super  | aguia pat™ CE Supanciaan/ Controllar (without azhil laga)   |               |
| BH-102G0N0000           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 500         BS-1080001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 1000         BS-10820001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 5000         BS-10820001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 2000         BS-10820001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 2000         BS-1082X001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 3000         BS-1082X001G           savic-net <sup>™</sup> G5 Supervisory Controller: Rackage software model 3000         BS-1082X001G           savic-net <sup>™</sup> G5 Supervisory Controller: Rackage software model 3000         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller: Rochus communication between Supervisory Controller         BS-10AD14001G           savic-net <sup>™</sup> G5 Supervisory Controller: SNMP communication between Supervisory Controller         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Luc of external storage         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Nutomatic Data Backup         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sickehow         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sickehow         BS-10AD000011  | savic-net ···· G5 Supervisory Controller (without azbir logo)   |               |
| savic-net <sup>144</sup> G5 Supervisory Controller: Package software model 1000       BS-10B200011G         savic-net <sup>144</sup> G5 Supervisory Controller: Package software model 2000       BS-10B200011G         savic-net <sup>144</sup> G5 Supervisory Controller: Package software model 2000       BS-10B200011G         savic-net <sup>144</sup> G5 Supervisory Controller: Package software model 2000       BS-10B200011G         savic-net <sup>144</sup> G5 Supervisory Controller: Package software model 2000       BS-10B2X00011G         savic-net <sup>144</sup> G5 Supervisory Controller: Package software model 2000       BS-10B2X00011G         savic-net <sup>144</sup> G5 Supervisory Controller: RACnet communication between Supervisory Controller       BS-10AD120011G         savic-net <sup>144</sup> G5 Supervisory Controller: Modbus communication between Supervisory Controller       BS-10AD10011G         savic-net <sup>144</sup> G5 Supervisory Controller: Work communication between Supervisory Controller       BS-10AD000311G         savic-net <sup>144</sup> G5 Supervisory Controller: Automatic Data Backup       BS-10AD000311G         savic-net <sup>144</sup> G5 Supervisory Controller: Simutaneous logins       BS-10AD000311G         savic-net <sup>144</sup> G5 Supervisory Controller: Full-screen mode       BS-10AD000311G         savic-net <sup>144</sup> G5 Supervisory Controller: Sinutaneous logins       BS-10AD000311G         savic-net <sup>144</sup> G5 Supervisory Controller: Net May Big/In/Ma limits monitoring       BS-10AD000311G         savic-net <sup>144</sup> G5 Supervisory Controller: Full-screen mode       BS-10AD000311G <td></td> <td></td>   |   |               |
| savic-net <sup>114</sup> G5 Supervisory Controller: Package software model 5000         BS-10B200001G           savic-net <sup>114</sup> G5 Supervisory Controller: Package software model 5000         BS-10B1X0001G           savic-net <sup>114</sup> G5 Supervisory Controller: Package software model 20000         BS-10B2X0001G           savic-net <sup>114</sup> G5 Supervisory Controller: Package software model 30000         BS-10B2X0001G           savic-net <sup>114</sup> G5 Supervisory Controller: Package software model 30000         BS-10B2X0001G           savic-net <sup>114</sup> G5 Supervisory Controller: Package software model 30000         BS-10AD12001G           savic-net <sup>114</sup> G5 Supervisory Controller: BACnet communication between Supervisory Controller         BS-10AD13001G           savic-net <sup>114</sup> G5 Supervisory Controller: Redundancy         BS-10AD00011G           savic-net <sup>114</sup> G5 Supervisory Controller: Redundancy         BS-10AD00011G           savic-net <sup>114</sup> G5 Supervisory Controller: Simultaneous logins         BS-10AD00011G           savic-net <sup>114</sup> G5 Supervisory Controller: Simultaneous logins         BS-10AD000211G           savic-net <sup>114</sup> G5 Supervisory Controller: Full-screen mode         BS-10AD002011G           savic-net <sup>114</sup> G5 Supervisory Controller: Sideshow         BS-10AD002011G           savic-net <sup>114</sup> G5 Supervisory Controller: Sideshow         BS-10AD002011G           savic-net <sup>114</sup> G5 Supervisory Controller: Controller: Analog high/low limits monitoring         BS-10AD002011G           savic-net <sup>114</sup> G  | savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 500                          | BS-10B050001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 5000         BS-108500011G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 20000         BS-1082X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 20000         BS-1082X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 20000         BS-1082X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: BACnet communication between Supervisory Controller         BS-10AD13001G           savic-net <sup>™</sup> G5 Supervisory Controller: SMMP communication between Supervisory Controller         BS-10AD14001G           and primary devices         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Automatic Data Backup         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode         BS-10AD000301G           savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode         BS-10AD000301G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000501G           savic-net <sup>™</sup> G5 Supervisory Controller: Inted Stop of Client Terninals Alarm Sound         BS-10AD000501G           savic-net <sup>™</sup> G5 Supervisory Controller: Analog high/low limits monitoring         BS-10AD000501G           savic-net <sup>™</sup> G5 Supervisory Controller:   | savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 1000                         | BS-10B100001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 10000         BS-10B1X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 30000         BS-10B2X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: BACnet communication between Supervisory Controller         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancian between Supervisory Controller         BS-10AD13001G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Supervisory Controller         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Supervisory Controller: Simultaneous logins         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Vice Alarm Message         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance         BS-10AD020101G           savic-net <sup>™</sup> G5 Supervisory Controller: Chaleg high/low limits monitoring   | savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 2000                         | BS-10B200001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 10000         BS-10B1X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 30000         BS-10B2X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: BACnet communication between Supervisory Controller         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancian between Supervisory Controller         BS-10AD13001G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Supervisory Controller         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Supervisory Controller: Simultaneous logins         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Vice Alarm Message         BS-10AD00011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance         BS-10AD020101G           savic-net <sup>™</sup> G5 Supervisory Controller: Chaleg high/low limits monitoring   |   | BS-10B500001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 20000         BS-10B2X0001G           savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 30000         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller: AChet communication between Supervisory Controller<br>and primary devices         BS-10AD12001G           savic-net <sup>™</sup> G5 Supervisory Controller: SNMP communication between Supervisory Controller<br>and primary devices         BS-10AD14001G           savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy         BS-10AD00031G           savic-net <sup>™</sup> G5 Supervisory Controller: Lated matacy         BS-10AD00031G           savic-net <sup>™</sup> G5 Supervisory Controller: SNMP communication between Supervisory Controller         BS-10AD00031G           savic-net <sup>™</sup> G5 Supervisory Controller: Subtration between Supervisory Controller         BS-10AD00031G           savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins         BS-10AD00031G           savic-net <sup>™</sup> G5 Supervisory Controller: Vice Alarm Message         BS-10AD000301G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000401G           savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow         BS-10AD000301G           savic-net <sup>™</sup> G5 Supervisory Controller: Evint management         BS-10AD000011G           savic-net <sup>™</sup> G5 Supervisory Controller: Analog high/low limits monitoring         BS-10AD2020101G           savic-net <sup>™</sup> G5 Supervisory Controller: Chareng of state court monitoring         BS-10  |   | BS-10B1X0001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: BACnet communication between Supervisory Controller<br>and primary devices       BS-10AD12001G         savic-net <sup>™</sup> G5 Supervisory Controller: SNUP communication between Supervisory Controller<br>and primary devices       BS-10AD13001G         savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy       BS-10AD0011G         savic-net <sup>™</sup> G5 Supervisory Controller: Automatic Data Backup       BS-10AD00011G         savic-net <sup>™</sup> G5 Supervisory Controller: Automatic Data Backup       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Sildeshow       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Sildeshow       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Point management       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Point management       BS-10AD000011G         savic-net <sup>™</sup> G5 Supervisory Controller: Point management       BS-10AD02011G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring       BS-10AD200101G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring       BS-10AD200101G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring  | savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 20000                        | BS-10B2X0001G |
| and primary devices Bs-<br>savic-net <sup>TM</sup> G5 Supervisory Controller: Modbus communication between Supervisory Controller and primary devices Bs-10AD13001G and primary devices Bs-10AD14001G and primary devices Bs-10AD04011G asvic-net <sup>TM</sup> G5 Supervisory Controller: Redundancy BS-10AD00011G savic-net <sup>TM</sup> G5 Supervisory Controller: New devices Bs-10AD00011G savic-net <sup>TM</sup> G5 Supervisory Controller: Sub effect and primary devices BS-10AD00011G savic-net <sup>TM</sup> G5 Supervisory Controller: Simultaneous logins BS-10AD000011G savic-net <sup>TM</sup> G5 Supervisory Controller: Polit Guidance BS-10AD000011G savic-net <sup>TM</sup> G5 Supervisory Controller: Polit Guidance BS-10AD000011G savic-net <sup>TM</sup> G5 Supervisory Controller: Polit Guidance BS-10AD00011G savic-net <sup>TM</sup> G5 Supervisory Controller: Polit management BS-10AD00011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD200011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD200011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD200011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD200011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD200011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD200011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD200011G savic-net <sup>TM</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD20011G savic-net   | savic-net <sup>™</sup> G5 Supervisory Controller: Package software model 30000                        | BS-10B3X0001G |
| and primary devices         savic-net™ G5 Supervisory Controller: SNMP communication between Supervisory Controller       BS-10AD14001G         savic-net™ G5 Supervisory Controller: Redundancy       BS-10AD00031G         savic-net™ G5 Supervisory Controller: Net of external storage       BS-10AD00031G         savic-net™ G5 Supervisory Controller: Simultaneous logins       BS-10AD00011G         savic-net™ G5 Supervisory Controller: Full-screen mode       BS-10AD00201G         savic-net™ G5 Supervisory Controller: Full-screen mode       BS-10AD00501G         savic-net™ G5 Supervisory Controller: SVC malware monitoring       BS-10AD00501G         savic-net™ G5 Supervisory Controller: SVC malware monitoring       BS-10AD00501G         savic-net™ G5 Supervisory Controller: Note Alarm Message       BS-10AD00501G         savic-net™ G5 Supervisory Controller: Network are monitoring       BS-10AD00501G         savic-net™ G5 Supervisory Controller: Network are monitoring       BS-10AD00011G         savic-net™ G5 Supervisory Controller: Neint management       BS-10AD00011G         savic-net™ G5 Supervisory Controller: Analog high/low limits monitoring       BS-10AD20101G         savic-net™ G5 Supervisory Controller: Change of state count monitoring       BS-10AD20601G         savic-net™ G5 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net™ G5 Supervisory Controller: Change of state count monitoring   | savic-net <sup>™</sup> G5 Supervisory Controller: BACnet communication between Supervisory Controller | BS-10AD12001G |
| and primary devices savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy BS-10AD00011G savic-net <sup>™</sup> G5 Supervisory Controller: Use of external storage BS-10AD00031G savic-net <sup>™</sup> G5 Supervisory Controller: Use of external storage SS-10AD00041G savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins BS-10AD000211G savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins BS-10AD000311G savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins Savic-net <sup>™</sup> G5 Supervisory Controller: Sildeshow SS-10AD000311G savic-net <sup>™</sup> G5 Supervisory Controller: Sildeshow SS-10AD000311G savic-net <sup>™</sup> G5 Supervisory Controller: SVC malware monitoring Savic-net <sup>™</sup> G5 Supervisory Controller: SVC malware monitoring Savic-net <sup>™</sup> G5 Supervisory Controller: Devit Management Ss-10AD000011G savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance Ss-10AD000011G savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance Ss-10AD000011G savic-net <sup>™</sup> G5 Supervisory Controller: Point management Ss-10AD100011G savic-net <sup>™</sup> G5 Supervisory Controller: Increment in accumulated value (during a specified period) monitoring Ss-10AD20501G period) monitoring Ss-10AD20601G savic-net <sup>™</sup> G5 Supervisory Controller: Elapsed active time monitoring Ss-10AD20601G savic-net <sup>™</sup> G5 Supervisory Controller: Elapsed active time monitoring Ss-10AD20601G savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring Ss-10AD21001G savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring Ss-10AD21001G savic-net <sup>™</sup> G5 Supervisory Controller: Charge of state count monitoring Ss-10AD21001G savic-net <sup>™</sup> G5 Supervisory Controller: Graphic Ss-10AD0101G Ss-10AD21001G Ss-10AD20001G Ss-10AD21001G Ss-10AD20001G Ss-10AD20001G Ss-10AD20001G   |   | BS-10AD13001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Use of external storage BS-10AD00031G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Automatic Data Backup BS-10AD00011G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins BS-10AD00010G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins BS-10AD00010G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode BS-10AD000301G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode BS-10AD000301G<br>savic-net <sup>™</sup> G5 Supervisory Controller: SVC malware monitoring BS-10AD000501G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode BS-10AD000601G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Point Glient Terminals Alarm Sound BS-10AD00601G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Point Glient Terminals Alarm Sound BS-10AD000601G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Point duance BS-10AD00701G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Point management BS-10AD00101G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Analog high/low limits monitoring BS-10AD200101G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Increment in accumulated value (during a specified<br>period) monitoring BS-10AD20601G<br>savic-net <sup>™</sup> G5 Supervisory Controller: State duration monitoring BS-10AD20601G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD20801G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD21001G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Graphic<br>savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD21001G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD21001G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD21001G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring BS-10AD21001G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Data aggregation BS-10AD40101G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Data aggregation BS-10AD400101G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Charts BS-10AD400101G<br>savic-net <sup>™</sup> G5 Supervisory Controller: Data aggregation BS-10AD |   | BS-10AD14001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Automatic Data Backup       BS-10AD00041G         savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins       BS-10AD00201G         savic-net <sup>™</sup> G5 Supervisory Controller: Voice Alarm Message       BS-10AD00201G         savic-net <sup>™</sup> G5 Supervisory Controller: Full-screen mode       BS-10AD00001G         savic-net <sup>™</sup> G5 Supervisory Controller: Sideshow       BS-10AD00001G         savic-net <sup>™</sup> G5 Supervisory Controller: SVC malware monitoring       BS-10AD00001G         savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance       BS-10AD0001G         savic-net <sup>™</sup> G5 Supervisory Controller: Point Guidance       BS-10AD0001G         savic-net <sup>™</sup> G5 Supervisory Controller: Point management       BS-10AD0001G         savic-net <sup>™</sup> G5 Supervisory Controller: Analog high/low limits monitoring       BS-10AD0201G         savic-net <sup>™</sup> G5 Supervisory Controller: Increment in accumulated value (during a specified period) monitoring       BS-10AD0201G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring       BS-10AD0201G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring       BS-10AD0201G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring       BS-10AD0201G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring       BS-10AD0201G         savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoring   | savic-net <sup>™</sup> G5 Supervisory Controller: Redundancy  | BS-10AD00011G |
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| savic-net <sup>™</sup> 65 Supervisory Controller: Voice Alarm Message       BS-10AD00201G         savic-net <sup>™</sup> 65 Supervisory Controller: Full-screen mode       BS-10AD00301G         savic-net <sup>™</sup> 65 Supervisory Controller: SVC malware monitoring       BS-10AD00401G         savic-net <sup>™</sup> 65 Supervisory Controller: SVC malware monitoring       BS-10AD00501G         savic-net <sup>™</sup> 65 Supervisory Controller: Ned Stop of Client Terminals Alarm Sound       BS-10AD00701G         savic-net <sup>™</sup> 65 Supervisory Controller: Point Guidance       BS-10AD00701G         savic-net <sup>™</sup> 65 Supervisory Controller: Increment in accumulated value (during a specified period) monitoring       BS-10AD02011G         savic-net <sup>™</sup> 65 Supervisory Controller: Elapsed active time monitoring       BS-10AD020011G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD020011G         savic-net <sup>™</sup> 65 Supervisory Controller: Operating hours by time slot monitoring       BS-10AD020011G         savic-net <sup>™</sup> 65 Supervisory Controller: Operating hours by time slot monitoring       BS-10AD020801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD0201016         savic-net <sup>™</sup> 65 Supervisory Controller: Operating hours by time slot monitoring       BS-10AD0201016         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD11111G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD1020101G <td>savic-net™ G5 Supervisory Controller: Automatic Data Backup</td> <td>BS-10AD00041G</td>   | savic-net™ G5 Supervisory Controller: Automatic Data Backup   | BS-10AD00041G |
| savic-net <sup>™</sup> 65 Supervisory Controller: Voice Alarm Message       BS-10AD00201G         savic-net <sup>™</sup> 65 Supervisory Controller: Full-screen mode       BS-10AD00301G         savic-net <sup>™</sup> 65 Supervisory Controller: SVC malware monitoring       BS-10AD00401G         savic-net <sup>™</sup> 65 Supervisory Controller: SVC malware monitoring       BS-10AD00501G         savic-net <sup>™</sup> 65 Supervisory Controller: Ned Stop of Client Terminals Alarm Sound       BS-10AD00701G         savic-net <sup>™</sup> 65 Supervisory Controller: Point Guidance       BS-10AD00701G         savic-net <sup>™</sup> 65 Supervisory Controller: Increment in accumulated value (during a specified period) monitoring       BS-10AD02011G         savic-net <sup>™</sup> 65 Supervisory Controller: Elapsed active time monitoring       BS-10AD020011G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD020011G         savic-net <sup>™</sup> 65 Supervisory Controller: Operating hours by time slot monitoring       BS-10AD020011G         savic-net <sup>™</sup> 65 Supervisory Controller: Operating hours by time slot monitoring       BS-10AD020801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD0201016         savic-net <sup>™</sup> 65 Supervisory Controller: Operating hours by time slot monitoring       BS-10AD0201016         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD11111G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD1020101G <td>savic-net<sup>™</sup> G5 Supervisory Controller: Simultaneous logins</td> <td>BS-10AD00101G</td>  | savic-net <sup>™</sup> G5 Supervisory Controller: Simultaneous logins                                 | BS-10AD00101G |
| savic-net <sup>™</sup> 65 Supervisory Controller: Full-screen mode       BS-10AD00301G         savic-net <sup>™</sup> 65 Supervisory Controller: Slideshow       BS-10AD00401G         savic-net <sup>™</sup> 65 Supervisory Controller: Slideshow       BS-10AD00501G         savic-net <sup>™</sup> 65 Supervisory Controller: Linked Stop of Client Terminals Alarm Sound       BS-10AD00601G         savic-net <sup>™</sup> 65 Supervisory Controller: Point Guidance       BS-10AD00701G         savic-net <sup>™</sup> 65 Supervisory Controller: Point management       BS-10AD00101G         savic-net <sup>™</sup> 65 Supervisory Controller: Increment in accumulated value (during a specified period) monitoring       BS-10AD20501G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20601G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD10111G         savic-net <sup>™</sup> 65 Superv   | savic-net <sup>™</sup> G5 Supervisory Controller: Voice Alarm Message                                 | BS-10AD00201G |
| savic-net <sup>™</sup> 65 Supervisory Controller: Slideshow       BS-10AD00401G         savic-net <sup>™</sup> 65 Supervisory Controller: SVC malware monitoring       BS-10AD00501G         savic-net <sup>™</sup> 65 Supervisory Controller: Linked Stop of Client Terminals Alarm Sound       BS-10AD00601G         savic-net <sup>™</sup> 65 Supervisory Controller: Point Guidance       BS-10AD00701G         savic-net <sup>™</sup> 65 Supervisory Controller: Point management       BS-10AD10001G         savic-net <sup>™</sup> 65 Supervisory Controller: Increment in accumulated value (during a specified period) monitoring       BS-10AD20501G         savic-net <sup>™</sup> 65 Supervisory Controller: State duration monitoring       BS-10AD20601G         savic-net <sup>™</sup> 65 Supervisory Controller: Elapsed active time monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD20801G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD21001G         savic-net <sup>™</sup> 65 Supervisory Controller: Change of state count monitoring       BS-10AD21001G         savic-net <sup>™</sup> 65 Supervisory Controller: Graphic       BS-10AD21001G         savic-net <sup>™</sup> 65 Supervisory Controller: Craphic generator       BS-10AD210101G         savic-net <sup>™</sup> 65 Supervisory Controller: Graphic generator       BS-10AD201011G         savic-net <sup>™</sup> 65 Supervisory Controller: Data aggregation       BS-10AD400101G         savic-net <sup>™</sup> 65 Supervisory Controller: Data aggregation <t< td=""><td></td><td></td></t<>   |   |               |
| savic-net <sup>™</sup> G5 Supervisory Controller: SVC malware monitoringBS-10AD00501Gsavic-net <sup>™</sup> G5 Supervisory Controller: Linked Stop of Client Terminals Alarm SoundBS-10AD00601Gsavic-net <sup>™</sup> G5 Supervisory Controller: Point GuidanceBS-10AD00701Gsavic-net <sup>™</sup> G5 Supervisory Controller: Point managementBS-10AD10001Gsavic-net <sup>™</sup> G5 Supervisory Controller: Analog high/low limits monitoringBS-10AD20101Gsavic-net <sup>™</sup> G5 Supervisory Controller: Increment in accumulated value (during a specified<br>period) monitoringBS-10AD20501Gsavic-net <sup>™</sup> G5 Supervisory Controller: State duration monitoringBS-10AD20601Gsavic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net <sup>™</sup> G5 Supervisory Controller: Departing hours by time slot monitoringBS-10AD21001Gsavic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoringBS-10AD21001Gsavic-net <sup>™</sup> G5 Supervisory Controller: GraphicBS-10AD21001Gsavic-net <sup>™</sup> G5 Supervisory Controller: GraphicBS-10AD21001Gsavic-net <sup>™</sup> G5 Supervisory Controller: Graphic generatorBS-10AD1111Gsavic-net <sup>™</sup> G5 Supervisory Controller: Processed Data CorrectionBS-10AD400101Gsavic-net <sup>™</sup> G5 Supervisory Controller: ChartsBS-10AD400101Gsavic-net <sup>™</sup> G5 Supervisory Controller: ChartsBS-10AD40011Gsavic-net <sup>™</sup> G5 Supervisory Controller: ChartsBS-10AD40611Gsavic-net <sup>™</sup> G5 Supervisory Controller: Reports Format EditorBS10AD40611Gsavic-net <sup>™</sup> G5 Supervisory Controller: Reports Forma   |   |               |
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| savic-net™ G5 Supervisory Controller: Point GuidanceBS-10AD00701Gsavic-net™ G5 Supervisory Controller: Point managementBS-10AD10001Gsavic-net™ G5 Supervisory Controller: Analog high/low limits monitoringBS-10AD20101Gsavic-net™ G5 Supervisory Controller: Increment in accumulated value (during a specified<br>period) monitoringBS-10AD20601Gsavic-net™ G5 Supervisory Controller: State duration monitoringBS-10AD20601Gsavic-net™ G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net™ G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net™ G5 Supervisory Controller: Operating hours by time slot monitoringBS-10AD21001Gsavic-net™ G5 Supervisory Controller: Change of state count monitoringBS-10AD21001Gsavic-net™ G5 Supervisory Controller: Change of state count monitoringBS-10AD21001Gsavic-net™ G5 Supervisory Controller: Change of state count monitoringBS-10AD21001Gsavic-net™ G5 Supervisory Controller: GraphicBS-10AD11111Gsavic-net™ G5 Supervisory Controller: GraphicBS-10AD30101Gsavic-net™ G5 Supervisory Controller: Data aggregationBS-10AD40101Gsavic-net™ G5 Supervisory Controller: ChartsBS-10AD40401Gsavic-net™ G5 Supervisory Controller: Daily, weekly, monthly, and yearly reportsBS10AD40601Gsavic-net™ G5 Supervisory Controller: Neter readingBS10AD40301Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40711Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40731G<   |   |               |
| savic-net™ G5 Supervisory Controller: Point managementBS-10AD10001Gsavic-net™ G5 Supervisory Controller: Analog high/low limits monitoringBS-10AD20101Gsavic-net™ G5 Supervisory Controller: Increment in accumulated value (during a specified<br>period) monitoringBS-10AD20501Gsavic-net™ G5 Supervisory Controller: State duration monitoringBS-10AD20601Gsavic-net™ G5 Supervisory Controller: Elapsed active time monitoringBS-10AD20701Gsavic-net™ G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net™ G5 Supervisory Controller: Operating hours by time slot monitoringBS-10AD21001Gsavic-net™ G5 Supervisory Controller: E-mail alarm notificationBS-10AD21001Gsavic-net™ G5 Supervisory Controller: Graphic<br>savic-net™ G5 Supervisory Controller: Graphic<br>savic-net™ G5 Supervisory Controller: Graphic<br>savic-net™ G5 Supervisory Controller: Processed Data CorrectionBS-10AD40101Gsavic-net™ G5 Supervisory Controller: Data aggregationBS-10AD404010Gsavic-net™ G5 Supervisory Controller: ChartsBS-10AD404010Gsavic-net™ G5 Supervisory Controller: ChartsBS-10AD404010Gsavic-net™ G5 Supervisory Controller: ChartsBS-10AD406011Gsavic-net™ G5 Supervisory Controller: Reports Format EditorBS10AD403011Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD407011Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD407011Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD407011Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD407011Gsavic-net™ G5 Supervisory Controller: No Change of Point   |   |               |
| savic-net <sup>™</sup> G5 Supervisory Controller: Analog high/low limits monitoringBS-10AD20101Gsavic-net <sup>™</sup> G5 Supervisory Controller: Increment in accumulated value (during a specified<br>period) monitoringBS-10AD20501Gsavic-net <sup>™</sup> G5 Supervisory Controller: State duration monitoringBS-10AD20601Gsavic-net <sup>™</sup> G5 Supervisory Controller: Elapsed active time monitoringBS-10AD20801Gsavic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net <sup>™</sup> G5 Supervisory Controller: Operating hours by time slot monitoringBS-10AD20801Gsavic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoringBS-10AD20101Gsavic-net <sup>™</sup> G5 Supervisory Controller: GraphicBS-10AD20101Gsavic-net <sup>™</sup> G5 Supervisory Controller: GraphicBS-10AD20101Gsavic-net <sup>™</sup> G5 Supervisory Controller: GraphicBS-10AD30111Gsavic-net <sup>™</sup> G5 Supervisory Controller: Processed Data CorrectionBS-10AD401011Gsavic-net <sup>™</sup> G5 Supervisory Controller: Processed Data CorrectionBS-10AD40011Gsavic-net <sup>™</sup> G5 Supervisory Controller: Daily, weekly, monthly, and yearly reportsBS-10AD40011Gsavic-net <sup>™</sup> G5 Supervisory Controller: Reports Format EditorBS10AD40301Gsavic-net <sup>™</sup> G5 Supervisory Controller: Neter readingBS-10AD40301Gsavic-net <sup>™</sup> G5 Supervisory Controller: No Log CommentBS-10AD40701Gsavic-net <sup>™</sup> G5 Supervisory Controller: No Log CommentBS-10AD407011Gsavic-net <sup>™</sup> G5 Supervisory Controller: No Change of Point LoggingBS-10AD407011Gsavic-net <sup>™</sup> G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net <sup>™</sup> G5  |   |               |
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| savic-net™ G5 Supervisory Controller: Elapsed active time monitoringBS-10AD20701Gsavic-net™ G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net™ G5 Supervisory Controller: Operating hours by time slot monitoringBS-10AD21001Gsavic-net™ G5 Supervisory Controller: E-mail alarm notificationBS-10AD11111Gsavic-net™ G5 Supervisory Controller: GraphicBS-10AD30101Gsavic-net™ G5 Supervisory Controller: Graphic generatorBS-10AD30101Gsavic-net™ G5 Supervisory Controller: Data aggregationBS-10AD40101Gsavic-net™ G5 Supervisory Controller: Processed Data CorrectionBS-10AD40101Gsavic-net™ G5 Supervisory Controller: ChartsBS-10AD40401Gsavic-net™ G5 Supervisory Controller: Daily, weekly, monthly, and yearly reportsBS-10AD40601Gsavic-net™ G5 Supervisory Controller: Reports Format EditorBS10AD40301Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40711Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40801G   | period) monitoring  |               |
| savic-net <sup>™</sup> G5 Supervisory Controller: Change of state count monitoringBS-10AD20801Gsavic-net <sup>™</sup> G5 Supervisory Controller: Operating hours by time slot monitoringBS-10AD21001Gsavic-net <sup>™</sup> G5 Supervisory Controller: E-mail alarm notificationBS-10AD11111Gsavic-net <sup>™</sup> G5 Supervisory Controller: GraphicBS-10AD30101Gsavic-net <sup>™</sup> G5 Supervisory Controller: Graphic generatorBS-10AD30101Gsavic-net <sup>™</sup> G5 Supervisory Controller: Data aggregationBS-10AD40101Gsavic-net <sup>™</sup> G5 Supervisory Controller: Processed Data CorrectionBS-10AD404011Gsavic-net <sup>™</sup> G5 Supervisory Controller: ChartsBS-10AD404011Gsavic-net <sup>™</sup> G5 Supervisory Controller: Daily, weekly, monthly, and yearly reportsBS-10AD406011Gsavic-net <sup>™</sup> G5 Supervisory Controller: Reports Format EditorBS10AD406011Gsavic-net <sup>™</sup> G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net <sup>™</sup> G5 Supervisory Controller: Logs format editorBS-10AD40701Gsavic-net <sup>™</sup> G5 Supervisory Controller: No Log CommentBS-10AD40731Gsavic-net <sup>™</sup> G5 Supervisory Controller: No Change of Point LoggingBS-10AD40801G   |   |               |
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| savic-net™ G5 Supervisory Controller: Data aggregationBS-10AD40101Gsavic-net™ G5 Supervisory Controller: Processed Data CorrectionBS-10AD40111Gsavic-net™ G5 Supervisory Controller: ChartsBS-10AD40401Gsavic-net™ G5 Supervisory Controller: Daily, weekly, monthly, and yearly reportsBS-10AD40601Gsavic-net™ G5 Supervisory Controller: Reports Format EditorBS10AD40611Gsavic-net™ G5 Supervisory Controller: Meter readingBS10AD40301Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: Logs format editorBS-10AD40701Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G   |   | BS-10AD30101G |
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| savic-net™ G5 Supervisory Controller: ChartsBS-10AD40401Gsavic-net™ G5 Supervisory Controller: Daily, weekly, monthly, and yearly reportsBS-10AD40601Gsavic-net™ G5 Supervisory Controller: Reports Format EditorBS10AD40611Gsavic-net™ G5 Supervisory Controller: Meter readingBS10AD40301Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: Logs format editorBS-10AD40701Gsavic-net™ G5 Supervisory Controller: Logs format editorBS-10AD40701Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G   | savic-net™ G5 Supervisory Controller: Data aggregation  | BS-10AD40101G |
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| savic-net™ G5 Supervisory Controller: Reports Format EditorBS10AD40611Gsavic-net™ G5 Supervisory Controller: Meter readingBS10AD40301Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: Logs format editorBS-10AD40711Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G  | savic-net™ G5 Supervisory Controller: Charts  | BS-10AD40401G |
| savic-net™ G5 Supervisory Controller: Meter readingBS10AD40301Gsavic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: Logs format editorBS-10AD40711Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G  | savic-net™ G5 Supervisory Controller: Daily, weekly, monthly, and yearly reports                      | BS-10AD40601G |
| savic-net™ G5 Supervisory Controller: LogsBS-10AD40701Gsavic-net™ G5 Supervisory Controller: Logs format editorBS-10AD40711Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G  | savic-net™ G5 Supervisory Controller: Reports Format Editor   | BS10AD40611G  |
| savic-net™ G5 Supervisory Controller: Logs format editorBS-10AD40711Gsavic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G   | savic-net <sup>™</sup> G5 Supervisory Controller: Meter reading                                       | BS10AD40301G  |
| savic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G  | savic-net <sup>™</sup> G5 Supervisory Controller: Logs  | BS-10AD40701G |
| savic-net™ G5 Supervisory Controller: No Log CommentBS-10AD40721Gsavic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G  | savic-net <sup>™</sup> G5 Supervisory Controller: Logs format editor                                  | BS-10AD40711G |
| savic-net™ G5 Supervisory Controller: No Change of Point LoggingBS-10AD40731Gsavic-net™ G5 Supervisory Controller: PDF edit permission updateBS10AD40801G   |   | BS-10AD40721G |
| savic-net <sup>™</sup> G5 Supervisory Controller: PDF edit permission update BS10AD40801G   |   |               |
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| Product name (application name)  | Model number  |
| savic-net <sup>™</sup> G5 Supervisory Controller: Data Archiving and Retrieval                                       | BS-10AD40901G |
| savic-net™ G5 Supervisory Controller: Flexible Reporting   | BS-10AD41001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Time-series data export  | BS-10AD41101G |
| savic-net™ G5 Supervisory Controller: Calendar   | BS-10AD50501G |
| savic-net™ G5 Supervisory Controller: Schedule   | BS-10AD50601G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Schedule Integration   | BS-10AD50611G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Numerical operation  | BS-10AD50301G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Conditional operation  | BS-10AD50201G |
| savic-net™ G5 Supervisory Controller: Alarm output   | BS-10AD50101G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Fire control   | BS-10AD51601G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Generator load distribution  | BS-10AD50731G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Power Factor Correction  | BS-10AD50801G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Power demand   | BS-10AD50901G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Duty cycle control   | BS-10AD51001G |
| savic-net <sup>™</sup> G5 Supervisory Controller: No Humidification  | BS-10AD51701G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Optimum start/stop of HVAC   | BS-10AD51101G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Optimum start/stop of central plant                                | BS-10AD51201G |
| savic-net <sup>™</sup> G5 Supervisory Controller: VWV Demand Calculation   | BS-10AD51311G |
| savic-net <sup>™</sup> G5 Supervisory Controller: VWV Pressure Calculation   | BS-10AD51321G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Charge Calculation Software for the Charge Calculation<br>Function | BS-10AD40311G |
| savic-net <sup>™</sup> G5 Supervisory Controller: Charge Calculation Software for the Billing Function               | BS-10AD40321G |

# • System Portal for Wide-Area Management (Optional)

| Product name                                  | Model number   |
|---|----------------|
| System Portal: Basic Function                 | BS-40AD000001G |
| System Portal: Licenses for Connected Systems | BS-40AD000001G |

 General Controller (Model WJ-1111), Direct Mount I/O Module (Model RY51), SAnet Interface Module (Model RY5101E), Setting-Device Connection Module (Model RY5101U), Operator Panel (Integrated Type) Module (Model RY5101Q), Operator Panel (Panel Mount Type) (Model QY5100W)

| Product name  | Model number |
|---|--------------|
| General Controller  | WJ-1111W0000 |
| Direct Mount I/O Module: 8 digital inputs   | RY5108S0000  |
| Direct Mount I/O Module: 16 digital inputs  | RY5116S0000  |
| Direct Mount I/O Module: 8 relay outputs (normally open contact)                            | RY5108D0000  |
| Direct Mount I/O Module: 16 relay outputs (normally open contact)                           | RY5116D0000  |
| Direct Mount I/O Module: 8 relay outputs (normally open contact) + 8 digital inputs         | RY5116R0000  |
| Direct Mount I/O Module: 8 relay outputs (normally open/normally close contact)             | RY5108C0000  |
| Direct Mount I/O Module: 4 remote control outputs   | RY5104Y0000  |
| Direct Mount I/O Module: 4 pulse inputs   | RY5104T0000  |
| Direct Mount I/O Module: 16 pulse inputs  | RY5116T0000  |
| Direct Mount I/O Module: 2 voltage/current outputs  | RY5102M0000  |
| Direct Mount I/O Module: 4 voltage/current outputs  | RY5104M0000  |
| Direct Mount I/O Module: 4 voltage/current inputs   | RY5104A0000  |
| Direct Mount I/O Module: 4 temperature inputs (Pt100 Ω)                                     | RY5104P0000  |
| Direct Mount I/O Module: 4 temperature inputs (Pt1000 Ω)                                    | RY5104P000K  |
| Direct Mount I/O Module: 2 voltage/current inputs + 2 temperature inputs (Pt100 Ω)          | RY5104J0000  |
| Direct Mount I/O Module: 2 voltage/current inputs + 2 temperature inputs (Pt1000 $\Omega$ ) | RY5104J000K  |
| Direct Mount I/O Module: 1 modutrol motor output  | RY5101F0000  |
| Direct Mount I/O Module: 3 modutrol motor outputs   | RY5103F0000  |
| Direct Mount I/O Module: SAnet Interface Module   | RY5101E0000  |
| SAnet Interface Module  | RY5101E0000  |
| Setting-Device Connection Module (SD Module)  | RY5101U0000  |
| Operator Panel (Integrated Type) Module   | RY5101Q0000  |
| Operator Panel (Panel Mount Type)   | QY5100W0000  |

### • Compact Remote I/O Module (Model RJ-12)

| Product name  | Model number |
|---|--------------|
| Compact Remote I/O Module: 8 digital inputs / 8 pulse inputs                                    | RJ-1201W0800 |
| Compact Remote I/O Module: 4 digital inputs + 4 digital outputs                                 | RJ-1202W0800 |
| Compact Remote I/O Module: 2 universal inputs/outputs   | RJ-1203W0200 |
| Compact Remote I/O Module: 4 remote control relay outputs                                       | RJ-1204W0400 |
| Compact Remote I/O Module: Combination (2 digital inputs + 2 digital outputs + 1 analog output) | RJ-1205W0500 |

### Advanced Controller for Chiller/Pump Units (Model WJ-1102), Advanced Controller (Model WJ-1101), Advanced Remote I/O Module (Model RJ-11)

| Product name   | Model number |
|--|--------------|
| Advanced Controller for Chiller Units                            | WJ-1102Q     |
| Advanced Controller for Pump Units                               | WJ-1102P     |
| Advanced Controller  | WJ-1101W0000 |
| Advanced Remote I/O Module: 16 digital inputs                    | RJ-1101W1600 |
| Advanced Remote I/O Module: 8 digital inputs + 8 digital outputs | RJ-1102W1600 |
| Advanced Remote I/O Module: 4 universal inputs/outputs           | RJ-1103W0400 |
| Operator Interface   | QJ-1101D0000 |

# • Infilex VC: VAV Controller with Actuator (Model WY5706)

| Product name  | Model number |
|---|--------------|
| Infilex VC: 24 V AC power, 5 Nm, Int. air flow sensor, No digital output, Pt100   | WY5706C5110  |
| Infilex VC: 24V AC power, 5Nm, Int. air flow sensor, No digital output, Pt1000    | WY5706C511K  |
| Infilex VC: 24V AC power, 5Nm, Int. air flow sensor, 3 digital outputs, Pt100     | WY5706C5130  |
| Infilex VC: 24V AC power, 5Nm, Int. air flow sensor, 3 digital outputs, Pt1000    | WY5706C513K  |
| Infilex VC: 24 V AC power, 10 Nm, Int. air flow sensor, No digital output, Pt100  | WY5706C5210  |
| Infilex VC: 24 V AC power, 10 Nm, Int. air flow sensor, No digital output, Pt1000 | WY5706C521K  |
| Infilex VC: 24 V AC power, 10 Nm, Int. air flow sensor, 3 digital outputs, Pt100  | WY5706C5230  |
| Infilex VC: 24 V AC power, 10 Nm, Int. air flow sensor, 3 digital outputs, Pt1000 | WY5706C523K  |

### • FCU Controller (Model WJ-1202W)

| Product name  | Model number |
|---|--------------|
| FCU Controller: Valve ON/OFF control, No external contact   | WJ-1202W1000 |
| FCU Controller: Valve proportional control, No external contact                                       | WJ-1202W2000 |
| FCU Controller: Valve proportional control, External contact  | WJ-1202W2010 |
| FCU Controller: Valve proportional control with return water temperature control, No external contact | WJ-1202W3000 |
| FCU Controller: Valve proportional control with return water temperature control, External contact    | WJ-1202W3010 |

# • Multi-area User Terminal (Model QJ-1201)

| Product name                              | Model number |
|---|--------------|
| Multi-area User Terminal: "azbil" logo    | QJ-1201C0000 |
| Multi-area User Terminal: no "azbil" logo | QJ-1201C0010 |

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