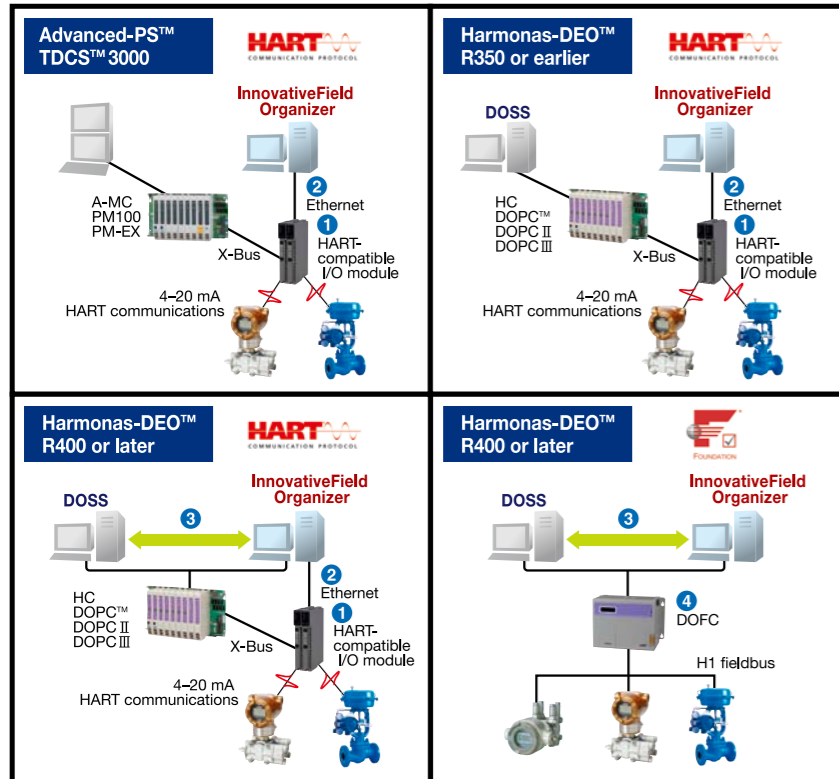


▶ Typical applications

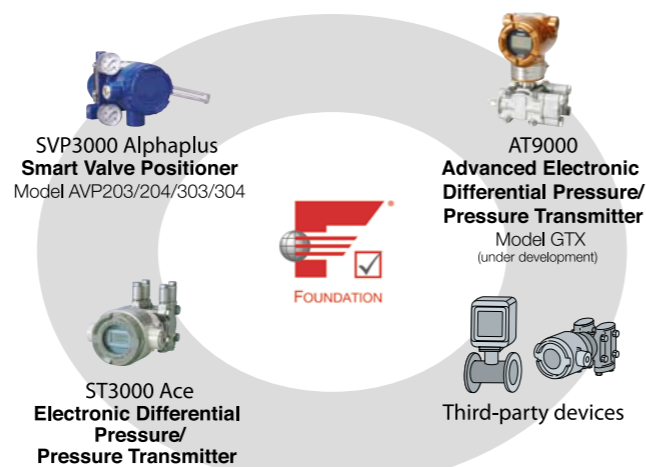
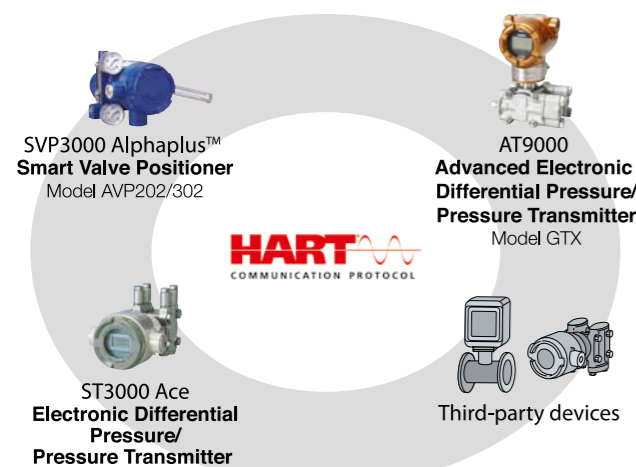


- 1 Safe and easy installation using existing DCS**
 - Replacement of only the base unit AIAO module with a HART-compatible module
 - No need to upgrade DCS or change software
- 2 A solution for HART's weak point, slow communication**
 - At HART's full speed of 1200 bps, high-speed communication almost equal to that of FOUNDATION™ Fieldbus is achieved.
 - Online trend diagnostics with high-speed communications
- 3 Notification to DCS operators of field device problems**
 - Device irregularities trigger an alert at the operator station.
 - DCS system constantly monitors IFO's operation status and sends an alarm to the operator station if anything is abnormal.
- 4 Supports FOUNDATION™ Fieldbus**
 - Requires little wiring.
 - Requires little space.
 - Allows PID control by field devices.



▶ HART devices

▶ FOUNDATION™ Fieldbus devices



- InnovativeField Organizer, Advanced-PS, TDCS, Harmonas-DEO, DOPC and Alphaplus are trademarks of Yamatake Corporation in Japan.
- Ethernet is a registered trademark of XEROX Corporation.
- FOUNDATION is a registered trademark of Fieldbus Foundation.
- HART is a registered trademark of HART Communication Foundation.
- Other product names, model nos., and company names may be trademarks of the respective company.

Specifications are subject to change without notice.

Yamatake Corporation
Advanced Automation Company

1-12-2 Kawana, Fujisawa
Kanagawa 251-8522, Japan

URL: <http://www.azbil.com/>

Device Management System
InnovativeField Organizer™

For top performance from field devices

Yamatake Corporation

Optimizes instrumentation maintenance work by device management following the maintenance workflow.

By digital communication with field devices, instead of conventional 4–20 mA signals, InnovativeField Organizer™ (IFO) makes maximum use of diagnostic and maintenance information provided by devices, improve efficiency of field and plant operation.

Execution of loop checks or control valve step response tests

Conventional method

One operator in the control room and several field personnel conduct checks for several days.

With IFO...

Start an IFO loop check or control valve step test before going home, and the results will be waiting at the office the next morning.

More efficient check work before operation start-up

Checks are executed in accordance with the loop check workflow.

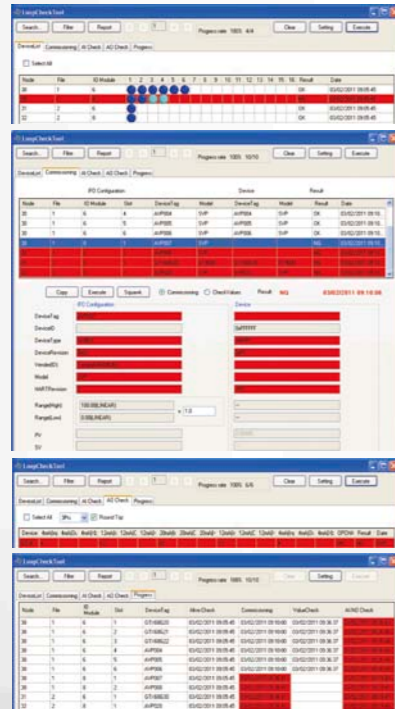
- Checks automatically that field devices are properly wired.

- Checks automatically that the field devices have the same range.

- Checks field device by comparing measurements with those at the previous SDM.

- Automates 3-point and 5-point checks.*
*HART devices only

- Displays the progress of loop checking in a table, assisting in overall operation management.



Lists the control valves to be checked.

Conventional method

Maintenance schedules are based on time, so valve is checked regardless of deterioration level.

With IFO...

Valves to be tested are listed by level of deterioration, as determined by diagnostic messages recorded by IFO during operation that indicate clogging, seizure, or leakage, or by step test executed after shutdown.

Optimization of valve overhaul during SDM



Checks in this section are optimized by maintenance based on valve condition.

Breakdown of control valve maintenance undertaken by Yamatake Corporation

Plant lifecycle

Shutdown maintenance (SDM)

In operation

Shutdown

Efficient daily maintenance work

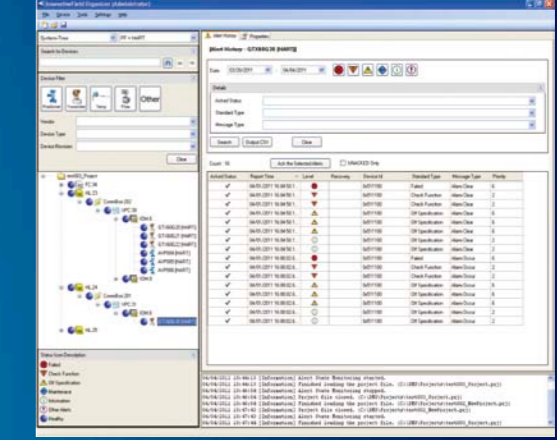
During plant operation, operator is informed that a device is not working normally.

Conventional method
When anything abnormal is reported, the maintenance staff goes to the site to see the problem.

With IFO...
Because instrument conditions can be checked on the IFO screen without going to the site, the maintenance staff goes to the site only if necessary.

IFO, not the maintenance staff, monitors devices 24 hours a day, 365 days a year

IFO monitors how field devices are operating. If any abnormality is detected, it alerts maintenance staff and operators so that they can take prompt action.



Prevention of shutdowns caused by device abnormality

Early detection of problems by patrol inspection

Conventional method
Work site patrol to check whether instrument readings differ dramatically from the previous day's

With IFO...
Upon arrival in the morning, check the IFO screen for device abnormality or messages about required maintenance. If there is any problem, check the details screen and take countermeasures before a malfunction occurs.

Control valve online monitoring
By monitoring control valves online using the diagnostic function of Yamatake's Smart Valve Positioner, problems can be lessened through early detection.

