# Sensors for a wide range of applications are available.

## Measurement of the indoor environment

Room Temperature Sensor
Room Humidity Sensor
Room Temperature/Humidity Sensor

Ceiling-Mounted Temperature Sensor (Round Type)

Radiant Temperature Sensor

Room $CO_2$ Sensor

Carbon Monoxide Sensor

## Measurement of temperature, humidity, and $CO_2$ concentration around air conditioning units

Duct Temperature/Humidity Sensor
Duct Temperature and Dewpoint Temperature Sensor

Duct $CO_2$ Sensor

Differential Pressure Sensor

## Measurement in the laboratory

Durable Temperature and Humidity Sensor (Indoor sensor)

Durable Temperature and Humidity Sensor (Duct sensor)

## Measuring the amount of heat load, pressure in Heat source system

Energy Calculator Unit

Pipe Temperature Sensor

Pressure Sensor

*Photographs in this document may differ slightly from the actual product.

*Specifications are subject to change without notice.*

**Azbil Corporation**
Building Systems Company

https://www.azbil.com

Rev.5.0 Nov. 2024

AC-567E 10H-ADV

Guide For Building Automation Products

# Sensor Edition
## Selection Guide

**Azbil Corporation**

# Various highly accurate and reliable sensors contribute to the realization of a comfortable and easy-to-work-in indoor environment.

Temperature · Humidity · Temperature Humidity
Radiant Temperature · $CO_2$ · CO
Dew Point · Differential Pressure · Pressure

Product specification sheets for various products can be viewed in PDF format.

## Indoor sensor

AB-7050

### Neosensor/Room Temperature Sensor
### Room Humidity Sensor
### Room Temperature/Humidity Sensor

Model Number TY7043, HY7045, HTY7045
Temperature 0~60°C Humidity 0~100%

Electronic indoor temperature and humidity sensor with high accuracy, wide measurement range and excellent stability, making it applicable for general building air-conditioning and various indoor applications.

AB-7508

### Ceiling-Mounted Temperature Sensor (Round Type)

Model Number TY7302
Temperature 0~60°C

Ceiling-mounted indoor temperature sensor.

AB-7510

### Infrared Array Sensor

Model Number TY2000, TY2001
Radiant Temperature -10~100°C

A sensor with multiple arrays of infrared detector elements that can accurately detect the distribution of object surface temperatures without contact.

AB-5361

### Radiant Temperature Sensor

Model Number TY7321
Radiant Temperature 5~50°C

A sensor installed on the ceiling to measure radiant temperatures in spaces such as window zones.

AB-7007

### Durable Temperature and Humidity Sensor (Indoor sensor)

Model Number HTY1000
Temperature 0~50°C
Humidity 0~95%

In addition to highly accurate temperature and humidity measurement, the system has the ability to detect and recover from drift* caused by chemical atmospheres, which are mainly present in research and production facilities.

*Drift: increase in measurement error due to changes in the humidity element over time.

AB-7286

### Room $CO_2$ Sensor

Model Number CY7101
$CO_2$ 0~2000ppm
Temperature 0~50°C

This sensor measures the $CO_2$ concentration in a room and can be used to control the airflow into the room.

AB-5782

### Carbon Monoxide Sensor

Model Number CY7200
CO 0~60ppm

This wall-mounted sensor is ideal for measuring CO concentration in spaces where air quality is likely to deteriorate, such as indoor parking lots, and for controlling air supply and exhaust fans.

AB-5936

### Cable-type Temperature Sensor

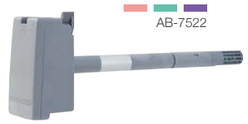
Model Number TY7820
Temperature 0~60°C

This sensor can also be utilized for measuring the temperature of pipe surfaces.

## Duct / pipe sensor

AB-7522

### Duct Temperature/Humidity Sensor
### Duct Temperature and Dewpoint Temperature Sensor



Model Number TY78x3, HTY78x5, HTY79x5
Temperature -20~60°C
Humidity 0~100%
Dewpoint Temperature -40~60°CDP

Temperature and humidity sensor and dew point temperature sensor that can be applied in ducts and chambers of general building air-conditioning, as well as for outdoor air measurement and various industrial applications.

AB-5429

### Pipe Temperature Sensor

Model Number TY783
Temperature -50~200°C

This pipe-insertion sensor can be widely used for controlling the temperature of various fluids, such as in pipes, tanks, and inside heat exchangers, or for indicating and recording such temperatures.

AB-7007

### Durable Temperature and Humidity Sensor (Duct sensor)

Model Number HTY1010
Temperature -20~60°C
Humidity 0~100%

In addition to highly accurate temperature and humidity measurement, the system has the ability to recover from and detect drift* caused by chemical atmospheres, which are mainly present in research and production facilities.

*Drift: increase in measurement error due to changes in the humidity element over time.

AB-7175

### Duct $CO_2$ Sensor

Model Number CY8100
$CO_2$ 0~2000ppm

This sensor measures the $CO_2$ concentration in ducts and can be used to control the amount of outdoor air intake.

## Differential pressure/pressure sensor

AB-7271

### Differential Pressure Sensor

Model Number PY9000
Differential Pressure 0 to 50~2,500Pa, -100 to 100Pa (Models selectable)

Used for measuring and controlling room pressure, duct static pressure, etc., for clean rooms and general air conditioning applications.general building air-conditioning and various indoor applications.

AB-4539

### Pressure Sensor

Model Number PY7100
Pressure 0 to 500~2,500kPa (Models selectable)

The pressures of cold and hot water, brine, lubricating oil, steam, air, etc. are detected and converted into a 4-20 mA DC signal for use in pressure measurement and control.

## Energy meter

AB-7474

### Energy Calculator Unit

Model Number WJ-1203

### Temperature Sensor

Model Number TY784
Temperature -50~200°C

### Electro Magnetic Flow Meter

Model Number MGG

Combining an energy calculator unit, a temperature sensor, and a flow meter, it functions as an energy meter for cold and hot water.
Use it for trading and managing the heating and cooling calorific values of various heat sources, air-conditioning units, etc.