




CO₂/CO sensor

Provides the most comfortable ventilation, and contributes to energy savings.

Description	insertion CO ₂ concentration sensor	CO ₂ concentration controller	CO concentration transmitter
External view			
Model number	CY8100C	CY7101T	CY7200A
Usage	CO ₂	CO ₂	CO
Sensorelements	Non-dispersive infrared absorption method(NDIR)	Non-dispersive infrared absorption method(NDIR)	Constant-potential electrolytic method
Measurement range	0 ~ 2000 ppm	0 ~ 2000 ppm	0 ~ 60 ppm
Response time	2min or less(w/no wind) 10sec or less (when air velocity is 2m/s)	Within 3 min or less	Within 60 sec (90%response)
Output signal	1 ~ 5V DC (0 ~ 2000ppm linear)	1 ~ 5V DC (0~2000ppm linear)	4 ~ 20mA DC(two wire system) (0 ~ 60ppm linear)
Mounting	duct insertion	wall mount	wall mount
Power supply	AC 24V	*	-
	DC 24V	-	*
order separately	CO ₂ service bag	83104511-001	-
	Base plate	-	83152965-001
	Dust filter (filter: 1pc, filter cover; 1pc)	-	CY7200Z2000
	Dust filter (5pcs)	-	CY7200Z3000

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Guide For Building Automation Products Sensor Edition

SELECTION GUIDE

A wide variety of products to help creating the most comfortable indoor environments.

Calorimeter

Provides energy consumption measurement.

Description	Electromagnetic calorimeter	Model number	MCM10A	
External view		Process fluid	temperature range:-20 ~ 90°C, pressure range:2.0MPa max. measurable electrical conductivity:50us/cm min.	
		Measurement flow range (m ³ /h)	DN25	0 ~ 8.835
			DN40	0 ~ 22.619
			DN50	0 ~ 35.342
			DN65	0 ~ 52.729
			DN80	0 ~ 90.477
		DN100	0 ~ 141.371	
		Protection rating	IEC IP65	
		Accuracy(flow rate)	1 ≤ Vf (m/s) ≤ 5, ±0.5% of rate. Vf < 1, ±0.5% of span	
		Input signal	two Pt100 inputs (supply temperature and return temperature)	
Accuracy(Caloric)	±1.5% of reading (Diff.temp >10°C)			
	±2.5% of reading (Diff.temp:4~10°C) ±3.0% of reading (Diff.temp<4°C)			
Output signal	4-20mA DC or pulse			
Wafer type	JIS10K, JIS20K, ANSI150			
Power supply	ISO PN10, ISO PN16			
			24VDC	

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Specifications are subject to change without notice.

Azbil Corporation

Building Systems Company

Yamatake Corporation changed its name to Azbil Corporation on April 1, 2012.

<http://www.azbil.com>

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AC-567E 20H-RGT



Room temperature/humidity sensor

Designed to suit rooms of any type.
A large lineup of products available.

Description		Neo Sensor			Highly sensitive Neo Sensor	Neo Mini Sensor		
External view								
Model number		TY7043	HY7043	HTY7043	TY7053	TY7023	HY7023	HTY7023
Usage		temperature	humidity	temperature humidity	temperature	temperature	humidity	temperature humidity
Measurement range	Temperature	0-60°C	-	0-60°C	0-60°C	0-60°C	-	0-60°C
	Humidity	-	0-100%RH	0-100%RH	-	-	0-100%RH	0-100%RH
Accuracy	Temperature	±0.3°C(Pt100) ±0.5°C(Pt1000)	-	±0.3°C	±0.3°C	±0.3°C	-	±0.3°C
	Humidity	-	±3%RH (30-70%RH,25°C) ±5%RH (20-80%RH,15-35°C)	-	-	-	±3%RH (30-70%RH,25°C) ±5%RH (20-80%RH,15-35°C)	-
Time constant	Temperature	Max.4.5 min	-	Max.4.5 min	Max.2.5min	Max.5 min	-	Max.5 min
	Humidity	-	Max.40 sec	Max. 40 sec	-	-	Max.40 sec	Max.40 sec
Output signal	Temperature	100Ω/0°C(Pt100) 1000Ω/0°C(Pt1000)	-	100Ω/0°C(Pt 100)	100Ω/0°C(Pt 100)	100Ω/0°C(Pt 100)	-	100Ω/0°C(Pt 100)
	Humidity	-	1-5V DC	1-5V DC	-	-	1-5V DC	1-5V DC
Mounting		Wall mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount
Power supply		Unnecessary	AC/DC 24V	AC/DC 24V	Unnecessary	Unnecessary	AC/DC 24V	AC/DC 24V
order separately	Base plate	83165803-001			-			
	Protection cover (10PCS)	83104506-010			83104507-010			
	Mounting flat plate	-			83103629-001			
	Mounting plate	-			83103630-001			

Other temperature sensor

Features highly accurate elements, and provides precise temperature and radiant temperature measurement.

Description	Pipe insertion temperature sensor	Radiant temperature sensor	Platinum resistance temperature sensor
External view			
Model number	TY783	TY7321	TY7820
Usage	temperature	temperature	temperature
Measurement range	-50 ~ +200°C	Radiant temperature : 5 ~ 50°C	0 to 60 deg.C
Accuracy	± (0.15+0.002 t)°C t : measurement temperature	± 2°C (Environment temperature 25°C)	±0.3°C(Pt100) ±0.5°C(Pt1000)
Time constant	Approx.50 sec or 20 sec	Max. 10 sec	Approx. max. 2 min
Output signal	100Ω/0°C (Pt 100)	1~ 5V DC	100Ω/0°C(Pt100) 1000Ω/0°C(Pt1000)
Mounting	Screwed or flanged connection	Ceiling mount	Mount with accessories
Material of well	Stainless steel (SUS304/316) Titanium	-	-
order separately	Seal connector (cable dia.8.5-12.5)	83104098-003	-
	Seal connector (cable dia.10.5-14.5)	83104098-004	-
	Heat-proof seal connector (-40~+120°C, cable dia.12-16)	PA1-A3PFH	-
	Repair element	TY783XZ	-

Duct insertion temperature/humidity sensor

Specially designed for easy mounting.
Splashing water-proof IP54 (housing part) structure provides resistance to the surrounding environment.

Description		Duct insertion temperature/humidity sensor			Duct insertion dewpoint temperature sensor	
External view						
Model number		TY78X3	HY78X3/6	HTY78X3/6	HY79X3	HTY79X3
Usage		temperature	humidity	temperature humidity	Dew point	Dew point temperature
Measurement range	Temperature	-20 ~ +60°C	-	-20 ~ +60°C	-	-20 ~ +60°C
	Humidity	-	0 ~ 100%RH	0 ~ 100%RH	-40 ~ +60°C DP	-40 ~ +60°C DP
Accuracy	Temperature	±0.3°C(Pt100) ±0.5°C(Pt1000)	-	±0.3°C(Pt100)	-	±0.3°C(Pt100)
	Humidity	-	±3%RH (HY78X3), ±2%RH (HY78X6)	±3%RH (HTY78X3), ±2%RH (HTY78X6)	±1°C DP	±1°C DP
Time constant	Temperature	Max.1 min	-	Max. 4 min	-	Max.4min
	Humidity	-	Max.1 min	Max.1min	Max.1 min (DP)	Max.1 min (DP)
Output signal	Temperature	100Ω/0°C(Pt100) 1000Ω/0°C(Pt1000)	-	100Ω/0°C (Pt100)	-	100Ω/0°C (Pt100)
	Humidity	-	1-5V DC, 0-10V DC, 4-20mA	1-5V DC, 0-10V DC, 4-20mA	1-5V DC, 0-10V DC, 4-20mA (DP)	1-5V DC, 0-10V DC, 4-20mA (DP)
Mounting		duct or chamber insertion				
Power supply		Unnecessary	AC/DC 24V	AC/DC 24V	AC/DC 24V	AC/DC 24V
order separately	Mounting bracket	83157235-001			83157235-001	
	Conduit mounting set	83157240-004			83157240-004	
	Seal connector	83104098-003			83104098-004	
	Sensor shield for outdoor ventilated case mounting bracket	DY8000A1001 DY3002A1005			DY8000A1001 DY3002A1005	

Pressure transmitter

Provides pressure of air and water measurement.
Highly precise, compact and lightweight.

Description	Differential pressure transmitter	Pressure transmitter	Differential pressure transmitter
External view			
Model number	PY9000D	PY7100A	STD 910/920/930/960
Usage	differential pressure	pressure	differential pressure
Measurement range	-0.1 ~ 0.1 kPa -0.05 ~ 0.05 kPa, 0 ~ 0.05 kPa, 0 ~ 0.1 kPa, 0 ~ 0.5 kPa, 0 ~ 1 kPa 0 ~ 2.5 kPa	0 ~ 0.5 MPa, 0 ~ 1.0 MPa, 0 ~ 2.0 MPa	-1 ~ 1 kPa, -100 ~ 100 kPa, -100 ~ 700 kPa, -0.1 ~ 14 MPa
Allowable differential pressure	10 kPa	1 MPa, 2 MPa or 4 MPa	-70 ~ 210 kPa, 2.0Pa ~ 14MPa
Accuracy	±2%FS	±0.5%FS	±(0.15+0.15X1.0/FS)% (STD910)
Output signal	4 ~ 20mA DC	4 ~ 20mA DC	4 ~ 20mA DC
Mounting	To be mounted on a wall surface	Screwed (BSPT 1/2)	To be mounted on a 2B pipe
Power supply	24V DC	24V DC	10.8 ~ 45V DC