## H-Guard ™ CO2 Transmitter



## **Typical Applications:**

Building management for office areas and residental

Ventilation control system

The H-Guard is a CO2 transmitter series designed to be installed in HVAC applications. The  $CO_2$  sensing element uses the Non-Dispersive Infrared Technology (NDIR) with the patented self-calibration system to guarantee the long term stability and up to 15 years life time.

## **Key Features:**

- Real-time detecting CO2 level.

- NDIR infrared CO2 module inside with four CO2 detection range selectable.

- CO2 sensor has Self-Calibration Algorithm and 15 years lifetime
- Wall-mounting
- Providing one analog output with voltage or current selectable
- 0~10VDC/4~20mA selectable easily via jumpers

- Provide a special model with a on/off relay output with a touch button to operate a fan control.

- Design for HVAC, ventilation systems, offices, or other public places.

- Modbus RS485 communication interface optional: 15KV antistatic protection, independent address setting

- CE-Approval



## H-Guard<sup>™</sup> Sensor & Transmitter Specifications

		Carbon Dioxide (CO2)
Sensing	element	Non-Dispersive Infrared Detector (NDIR)
Accuracy@25(77),2000ppm		±40ppm + 3% reading
	Stability <	<2% of FS over life of sensor (15 yr typical)
Calibration	n interval	ABC Logic Self Calibration System
Respo	nse time	<2 minutes for 90% step change
Warm	n up time 2	2 hours (first time) 2 minutes (operation)
CO2 measuri	ng range	D-2,000ppm / 0-5,000ppm selectable in orders
	(	0-20,000ppm / 0-50,000ppm just for TSM-CO2-S series
Se	ensor life	Jp to 15 years
Powe	er supply 2	24VAC/24VDC
Cons	sumption	1.5 W max. ; 0.8 W avg.
Analog	<b>outputs</b> (	0~10VAC or 4~20mA selectable by jumpers
Rela	y output	1X3A switch load
	F	Four set points selectable by jumpers
Modbus	interface	Modbus RS485 interface
	ç	9600/14400/19200(default)/28800 or 38400bps (programmable
	S	selection), 15KV antistatic protection.
Operation conditions		0~50(32~122); 0~95%RH, non condensing
Storage conditions		40~70(-40~158)
		180g
	_	0 100mm×80mm×28mm
Installation standard		65mm×65mm or 2"×4"wire box
Approval		CE-Approval
Ordering info	ormation	65-9080 H-Guard CO2 Transmitter, 1x4-20mA output 1 x
		Relay output0-2000ppm standard range
	4	49-998-01Plug pack 240VAC/24Vdc 450mA
100m		
antitute		

Distributed By

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