Dioxide



CO₂

CD-30M/301

◆ Introduction

CD-30M/30I are designed for air conditioning system being installed on air conditioning duct system. With built-in transmitter, CD-30M/30I can detect CO2 gas density using NDIR (Non Dispersive Infrared) and convert the measured density signal into linear current or voltage signal to be transmitted to external monitoring unit or controlling unit such as PLC or DDC.

Features

- Non Dispersive Infrared(NDIR) CO2 sensor State-of-the-art Non Dispersive Infrared (NDIR) CO2 sensor realizes the highest detection accuracy and the longest sensor life time with the least affection from other gases.
- Built-in transmitter

 Built-in transmitter transforms the sensor signal into stable standard current output signal (4-20mA) to be transmitted to external controlling equipments such as PLC or DDC.
- Robust metal housing
 Robust metal housing firmly protects the stable operation
 against harsh environment or impact in spite of open & close
 structure.

Sensor options

Measurement range	accuracy(±)	
0·2,000ppm / 0·5,000ppm	30 ppm \pm 5% rel.	
0-2.00%	200 ppm \pm 5% rel.	

Specification

	CD-30M	CD-3 01	
Mounting type	Wall mounting	Ouct mounting	
Detection principle	NDIR (Non-Dispersive Infrared)		
Detect ion method	Diffusion		
Pespanse time	Within 20 seconds - 0.1 liter air flow / min.		
Accuracy	±1% / full scale, ±5% / reading		
Zero var iance	<±0.3% / full scale / year		
Measurement range	0-2,000pm / 0-5,000pm / 2.00%		
Output	4 - 20πA		
D/A resolution	12bit		
D/Aaccuracy	Voltage mode: $\pm 2\%$ / reading ± 20 mV, current loop: $\pm 2\%$ / reading ± 0.3 mA		
Input power	24V AC/DC ±20%, 50-60-12		
Power consumption	≤3W		
Signal wire	CWS & CWSB 1.25sq X 3 wire - shield type		
Terminal	Screw terminal		
griaud	Metal case with metal tube		
Operation temperature / humidity	0-50°C / 0-95% PH (man-condensing)		
Initialization time	Within 1 min		

Dimension & wiring



