

Datasheet : CO₂, Humidity and Temperature Sensor

Part: KCD-DA-xxxx



Description.

Dual wavelength NDIR CO₂ sensor providing either Digital, 0-10V or 4-20mA output.

Dual wavelength technology provides enhanced long term stability and accuracy.

The Dual wavelength optical measurement technology allows the CO₂ sensor to maintain accuracy and stability even when subjected to shocks and vibrations.

Selectable jumper for choosing either 4-20mA or 0-10V.



SPECIFICATIONS

Measurement	Sensing Method		Dual Wavelength NDIR	
	Measurement Range		0-2000ppm, 0-5000ppm, 0-10000ppm	
	Accuracy at 25°C	2000ppm	± 50ppm +3% reading	
		5000ppm	± 100ppm +3% reading	
		10000ppm	± 200ppm +3% reading	
	Response time (63%)		< 30 sec	
	Measurement time interval		1.5 sec	
General	Warm up time		< 2 min	
	Storage temperature		-40°C to +70°C	
	Temperature dependence		0.2% FS / °C	
Operating Conditions	Temperature		0°C to 50°C	
	Humidity		0°C to 95% RH (Non-condensing)	
	Gas flow rate		0.2 to 1 m/sec	
Electrical	Power supply (rectified)	16 to 24VDC		
	Power Consumption	70mA average		
Outputs	Analog Outputs		0 - 10VDC or 4-20mA	
	UART COMMS	Low	0 - 0.3V	
	Digital Outputs	High	2.8 - 5.0V	
Dimensions	70mm x 44.5mm x 18mm			

Ordering

RANGE	PART NUMBER
2000ppm	KCD-DA-2000
5000ppm	KCD-DA-5000
10000ppm	KCD-DA-10000

