

Sensors Selection Guide



Telasia Symtonic provides wide use of CO2 sensor. The difference is depending on the application purpose and technical requirement. The information can help your customers choose the most useful in terms of its environment.

Product Selection Guide						
Model	VC1009	VC1008T	eSense	aSense	CO-T1	DCO-S3
Parameters/ options						
Function	CO2 sensor/transmitter			CO2 controller	CO transmitter	CO controller
Input power supply	24 vac/dc (+/-20%), half wave rectification					
Power consumption	< 1 watt				< 1 watt	< 5 watts
Measuring technology	non-dispersive infrared(NDIR)				MMOS*	
Measuring range	0-2000ppm CO2				0-100ppm CO	
Measurement accuracy	± 75 ppm ± 5 % of reading	± 30ppm ±3 % of reading			< ± 10%	
Repeatability	± 30 ppm ± 3 % of reading	± 20 ppm ± 1 % of reading			< ± %5%	
Annual zero drift	< ± 30 ppm	< ± 10 ppm			< ± %5%	
Response time						
with 30c.c./min flow	< 10 seconds				—	
with diffusion	< 3 minutes diffusion time					
Temperature measurement	passive NTC output			Active output, 0 - 50 oC(10K NTC thermister)		
Output signal: 0-10V	O	O	O	O	O	O
: 4-20mA	O	O		O	O	O
Digital Interface				RS232 (SenseAir UIP software)	RS 232 (Telasia UIP)	
Option:						
Measuring range		0.6%, 2%, 4%, 10%, 20%			0-50ppm, 0-250ppm	
LC display (-D)			O	O	O	O
Network options			RS485	RS485/LonWork		
Relay contact output (-R)	O	O		O	O	O
Humidity sensor (-RH)				O		
Housing options :						
Duct mount (-K)	O	O	O	O		
Industrial IP50 (-IP50)	O	O	O		O	O
Industrial IP54 (-IP54)	O	O	O	O	O	O

Sensors Selection Guide



Telasia Symtonic is the factory representative of SenseAir AB of Sweden in Asia Pacific region. We provides wide use CO2 OEM module for secondary development company, and we can provide a full range of technical support.

CO2 Module Selection Guide				
Model	K22-Lo	K30	S8	K33
Parameters/ options				
Sensing Method	non-dispersive infrared (NDIR) waveguide technology with ABC			
Measurement Range	0-2000ppm	0-5000ppm		0-30%vol. CO2
Accuracy	± 75 ppm + 5% of measured value	± 30 ppm ± 3% of measured value	± 70 ppm ± 3% of reading	± 0,2 % vol. CO2 ± 3 % of measured value
Sensor Life Expectancy	> 15 years			> 10 years
Power Input	4.5 to 12.0VDC maximmm rating, stabilized to ±5%	4.5-14VDC , stabilized to within 10%	5V ±5%	4.75-12 VDC stabilized to within 10%
Current Consumption	40mA average		30 mA average	~60 mA average
Dimensions	65 x 60 x 35 mm	51 x 57 x 14 mm	33.5 x 20 x 8.5 mm	51 x 57 x 14 mm
Protocol	-	MODBUS open protocol,		
Hardware interface	I2C	CMOS UART / I2C	UART	I2C or UART



Sensors Selection Guide



These instruments are widely used in industrial safety and indoor air quality measurement. The form is which to compare different technical specifications

Portables Monitor Selection Guide

Products	pSense	pSense-RH	SenseAir®	SenseAir® Alarm
Feature				
Measurement range	0 - 2000 ppm	0 - 3000 ppm	0 - 6000 ppm	0 - 3% vol
Extended range	2001 - 9999 ppm	3001 - 9999 ppm	6000 - 10000 ppm	3 - 10 % vol
Temperature	O	O	O	
Humidity		O		
Sensing technology	non - dispersive infrared (NDIR)			
Personal Safety				O
Power supply	AA type (UM-3) x 4 pcs		6 VDC / 700 mAh,	
Dimensions:(LxWxD mm)			125x52x32	125x52x32
Weight:			135g	135g
Battery capacity	> 24 h	> 24 h	>12 h	>12 h

