



# COMAG IR

defining technology

## SmartScan PPM 4022H

The digital, high resolution, extended calibration infrared CO<sub>2</sub> and humidity / temperature sampler for HVAC systems.

Lab-quality CO<sub>2</sub> detection now available for professional and domestic 24h applications in demand control ventilation and smart house indoor air quality.

- Tailored for Demand Control Ventilation
- Low Total Cost of Ownership (TOC)
- No calibrated gas ever required
- BacNet version available



<b>Sensor type:</b>	Microprocessor controlled fully digital, non-dispersive dual wavelength infrared, temperature compensated
<b>Technical data:</b>	
Measurement range CO <sub>2</sub>	0 - 3,000 ppm standard
User selectable ranges	0 - 1,500, 0 - 2,000, 0 - 2,500
Options	Other ranges on custom order
<b>Characteristics:</b>	
Accuracy of CO <sub>2</sub> measurement	± 25 ppm in 15 to 30 °C range ± 40 ppm outside
Repeatability	± 5 ppm
Resolution	± 0.1 ppm
Long term stability	± 20 ppm per year
Temperature stability of CO <sub>2</sub> reading	< 1 ppm / °C
Air pressure correction	- 0.13% of reading / mm Hg
Measurement range temperature	- 30 to +50 °C, digital
Temperature accuracy	± 0.5 °C
Temperature repeatability	<± 0.2 °C
Warm up time	< 60 seconds
Response time	< 1 second
<b>High resolution digital humidity/temperature plug (*option):</b>	
Humidity range	5 - 80% RH
Humidity accuracy	± 2% RH
Humidity response time	< 3 seconds
Temperature range	- 40 °C to +60 °C
Temperature resolution	<± 0.05 °C @ 5 - 40 °C
<b>Functions:</b>	
Sampling interval	30 sec standard 15 sec - 4 hours, user selectable
Standard output	RS232 4-20mA, 0-10V
<b>General:</b>	
Material	Sheet metal, 24 gauge
Size (LxWxH)	172 x 158 x 42 mm
Weight	860 g
Color	Bone
Supply voltage	12VDC or 24VAC/DC
Current consumption	< 0.5A sample - 0.12A idle
Wiring	Terminal block, Phoenix type
On/Functional	Green LED, steady/flashing



#### Options:

- Wall mount bracket with lock
- \*High Resolution Humidity / Temperature - Model No. 4122
- BacNet bus communication interface
- On/off toggle switch
- Duct vent kit



Specifications may be subject to change without further notice

#### For information, sales and support - please contact:

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SmartScan gas analysis