

# ATMOSENSE™

## INDUSTRIAL PROCESS GAS ANALYZER



FIXED-MOUNT

PORTABLE

The AtmoSense™ is a flexible process analyzer designed to provide real-time measurements of process gas variables in a wide variety of atmosphere control applications. The AtmoSense™ is available with a range of sensors and options to provide accurate measurement of either dew point, relative humidity(%RH), methane(CH<sub>4</sub>), propane(C<sub>3</sub>H<sub>8</sub>), hydrogen(H<sub>2</sub>), carbon monoxide(CO), or carbon dioxide(CO<sub>2</sub>).

In addition, the AtmoSense™ is engineered to be easily serviceable, can be field calibrated, and comes standard with a color LCD display and industrial sealed inlet sample filter. These industrial analyzers can also be fitted with a sample pump to draw atmosphere samples in low pressure applications.

In today's world of advanced process controls and strict customer specifications, the AtmoSense™ is an important addition to the toolbox any captive or commercial heat treater!

### FEATURES / BENEFITS

- Universal package designed to be fitted with an array of different sensors to meet most applications
- Accurate and affordable process control
- Analog Output Signal (4-20mA, I-5VDC)
- Robust industrial design engineered to operate in harsh environments
- Large color display provides easy operation and verification of process variable
- Integrated filter, meter, and optional sample pump
- Portable or fixed mount configurations available
- Universal power supply
- Integrated nitrogen inlet port for enclosure purge
- Optional process controller available

### OPTIONS

- Multiple Gas Types
- Portable or Fixed Mount
- Universal AC Power Supply
- Integrated Sample Pump
- Integrated Process Controller

### APPLICATIONS

- Endothermic
- Exothermic
- Carburizing
- Nitriding/FNC
- Annealing
- Normalizing



Dew Point AtmoSense™  
on Endothermic Gas Generator

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## INDUSTRIAL PROCESS GAS ANALYZER

### PRODUCT/OPTION CODE

		ATMOSENSE	-	-	-
1 Gas Type	Dew point (Range: -60 - 60°C)	DP			
	Hydrogen (Range: 0 - 100%vol)	H2			
	Methane (Range: 0 - 5.0%vol)	CH4			
	Methane (Range: 0 - 100%vol)	CH4a			
	Propane (Range: 0 - 2.1%vol)	C3H8			
	Propane (Range: 0 - 100%vol)	C3H8a			
	Carbon Monoxide (Range: 0.1 - 100%vol)	CO			
	Carbon Dioxide (Range: 0 - 2.0%vol)	CO2			
	Oxygen (Range: 0 - 20%)	O2A			
	No Internal Sensor	NO			
	2 Build Options	Basic (No Display)			BASIC
Color Display (24VDC Only)				DISP	
Display and Universal AC Power Supply				DISPAC	
Display, Universal AC Power, Process Controller				CTRL	
Portable Kit (Includes Display, Universal AC Power with Battery)				PORT	
3 Sample Pump	None				NO
	Integrated Sample Pump				PUMP

### TECHNICAL SPECIFICATIONS

Gas Type	Product Code	Measurement Range	Display Resolution	Operating Humidity
Dew Point	DP	-60 to 60°C (-76 to 140°F)	0.1°C (0.2°F)	0 to 100% RH (sensor can get wet)
Hydrogen	H2	0.0 - 100% volume	0.10%	0 to 100% RH (sensor can get wet)
Methane (Low Range)	CH4	0.0 - 5.0% volume	0.01%	5 to 95% RH (non-condensing)
Methane (Full Range)	CH4a	0.0 - 100% volume	0.10%	5 to 95% RH (non-condensing)
Propane (Low Range)	C3H8	0.0 - 2.1% volume	0.01%	5 to 95% RH (non-condensing)
Propane (Full Range)	C3H8a	0.0 - 100% volume	0.10%	5 to 95% RH (non-condensing)
Carbon Monoxide	CO	0.1 - 100% volume	0.10%	5 to 95% RH (non-condensing)
Carbon Dioxide	CO2	0.1 - 2.0% volume	0.001%	5 to 95% RH (non-condensing)
Oxygen	O2A	0.0 - 20.0% volume	0.10%	5 to 95% RH (non-condensing)