

INDUSTRIAL PROCESS GAS ANALYZER



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 (CH₄), propane (C₃H₈), hydrogen (H₂), carbon monoxide (CO), or carbon dioxide (CO₂).

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. It 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 of any captive or commercial heat treater!

Options

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

Applications

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

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, 1-5VDC)
- 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



Dew Point AtmoSense™ on Endothermic Gas Generator

PRODUCT / OPTION CODE

ATMOSENSE - - -

1 Sensor Type

Dew Point Low (Range: -80 - 20°C -112 - 68°F)	DPH
Dew Point High (Range: -60 - 60°C -76 - 140°F)	DPL
Hydrogen (Range: 0 - 100%vol)	H ₂
Methane (Range: 0 - 5.0%vol)	CH ₄
Methane (Range: 0 - 100%vol)	CH ₄ a
Propane (Range: 0 - 2.1%vol)	C ₃ H ₈
Propane (Range: 0 - 100%vol)	C ₃ H ₈ a
Carbon Monoxide (Range: 0.1 - 100%vol)	CO
Carbon Dioxide (Range: 0 - 2.0%vol)	CO ₂
Oxygen (Range: 0 - 20%)	O ₂ A

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

SPECIFICATIONS - SENSOR TYPE

Sensor Type	Product Code	Measurement Range	Display Resolution	Operating Humidity
Dew Point Low	DPL	-80 to 20°C (-112 to 140°F)	0.1°C (0.2°F)	0 to 100% RH (sensor can get wet)
Dew Point High	DPH	-60 to 60°C (-76 to 140°F)	0.1°C (0.2°F)	0 to 100% RH (sensor can get wet)
Hydrogen	H ₂	0.0 - 100% volume	0.10%	0 to 100% RH (sensor can get wet)
Methane (Low Range)	CH ₄	0.0 - 5.0% volume	0.01%	5 to 95% RH (non-condensing)
Methane (Full Range)	CH ₄ a	0.0 - 100% volume	0.10%	5 to 95% RH (non-condensing)
Propane (Low Range)	C ₃ H ₈	0.0 - 2.1% volume	0.01%	5 to 95% RH (non-condensing)
Propane (Full Range)	C ₃ H ₈ a	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	CO ₂	0.1 - 2.0% volume	0.001%	5 to 95% RH (non-condensing)
Oxygen	O ₂ A	0.0 - 20.0% volume	0.10%	5 to 95% RH (non-condensing)

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