



# CLIMATRAX

**Multivariable** Environmental Monitor.

Always know the climate in your mine with the all-in-one sensor  
that is designed for harsh industrial environments.

## A MULTIVARIABLE ENVIRONMENTAL MONITOR DESIGNED FOR HARSH INDUSTRIAL ENVIRONMENTS.

ClimaTRAX provides accurate and real time measurements of your air quality. This helps you determine efficiencies of automated processes in your ventilation control and energy management systems. They can be implemented in both industrial and commercial settings.



  
Wet Bulb Globe  
Temperature

  
Heat Index  
Humidex

  
Air Density

  
Humidity

  
Pressure

  
Temperature

  
Dew Point



## FEATURES

- 15 user selectable parameters
- White backlit LCD display
- Four user selectable 4-20mA analog outputs
- Modbus RS485 communication with two relay options for alarm, interlocks and control
- Rugged construction in either polycarbonate or stainless steel enclosures

## MEASURE & MONITOR

- Dry-Bulb Temperature
- Global Wet-bulb
- Barometric Pressure
- Relative Humidity
- Dew Point

## CALCULATED

- Wet-bulb temperature
- Air density
- Heat stress index

## CUSTOMIZATION

- Stainless steel enclosure
- Polycarbonate enclosure
- Stainless steel sensing probe
- Polycarbonate sensing probe

## BENEFITS

- All-in-one temperature, humidity and pressure sensor
- Accurate real time measurement
- No maintenance
- Factory calibrated
- Simple installation and operation reduce project costs and start-up times



Backlit LCD Display

Cable Gland Entries For:  
4-20mA outputs  
Modbus RS485  
Relay output

ClimTrax Sensor Probe

Mounting Flange

# CLIMATRAX SPECIFICATIONS

Humidity	Min - Max Range 0-100%	Resolution 0.7%	Accuracy ±1.8%	Long Term Drift < 0.5 %RH/yr	Response Time 8 seconds
Temperature	Min - Max Range -40° to +85°	Resolution 0.01°C	Accuracy ±0.8°C	Long Term Drift < 0.04 °C/yr	Response Time 5 to 30 seconds
Pressure	Min - Max Range 300 to 2000 millibar	Resolution 0.1 mbar	Accuracy ±1.5 mbar	Long Term Drift -1 mbar/yr	Response Time 8.2 milli-seconds
Measuring Units	m3/s, cfm & kcfm Pressure  %RH Humidity	Kg/m3 & lbs/ft3 Air Density	°C & °F Temperature Heat index Dew point		
Electrical Ratings	Power In 12 to 30 VDC	Power Consumption < 2.1 watts		Max Loop Impedance 700Ω	
Communication	Interface Modbus RTU RS485 4-20 mA outputs (x4)	Optional SPDT Form C Relays (x2) Modbus TCP (with CommTRAX) Ethernet IP			
Physical	Enclosure Stainless Steel Polycarbonate  Rating IP65	Operating Temperature -40 to 85 °C  Weight 1.4 lbs (0.6 kg)		Operating Humidity -40 to 85 °C  Dimensions 19 cm x 13 cm x 6 cm (28 cm probe)	



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