

www.accutroninstruments.com

# CLIMATRAX™

## MULTIVARIABLE ENVIRONMENTAL MONITOR



Always know the climate in your mine with the all-in-one sensor that is 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.



**An affordable environmental monitor** with temperature, humidity and pressure sensors, designed for harsh industrial environments.

## MEASURE & MONITOR

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

## CALCULATED

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



# BENEFITS

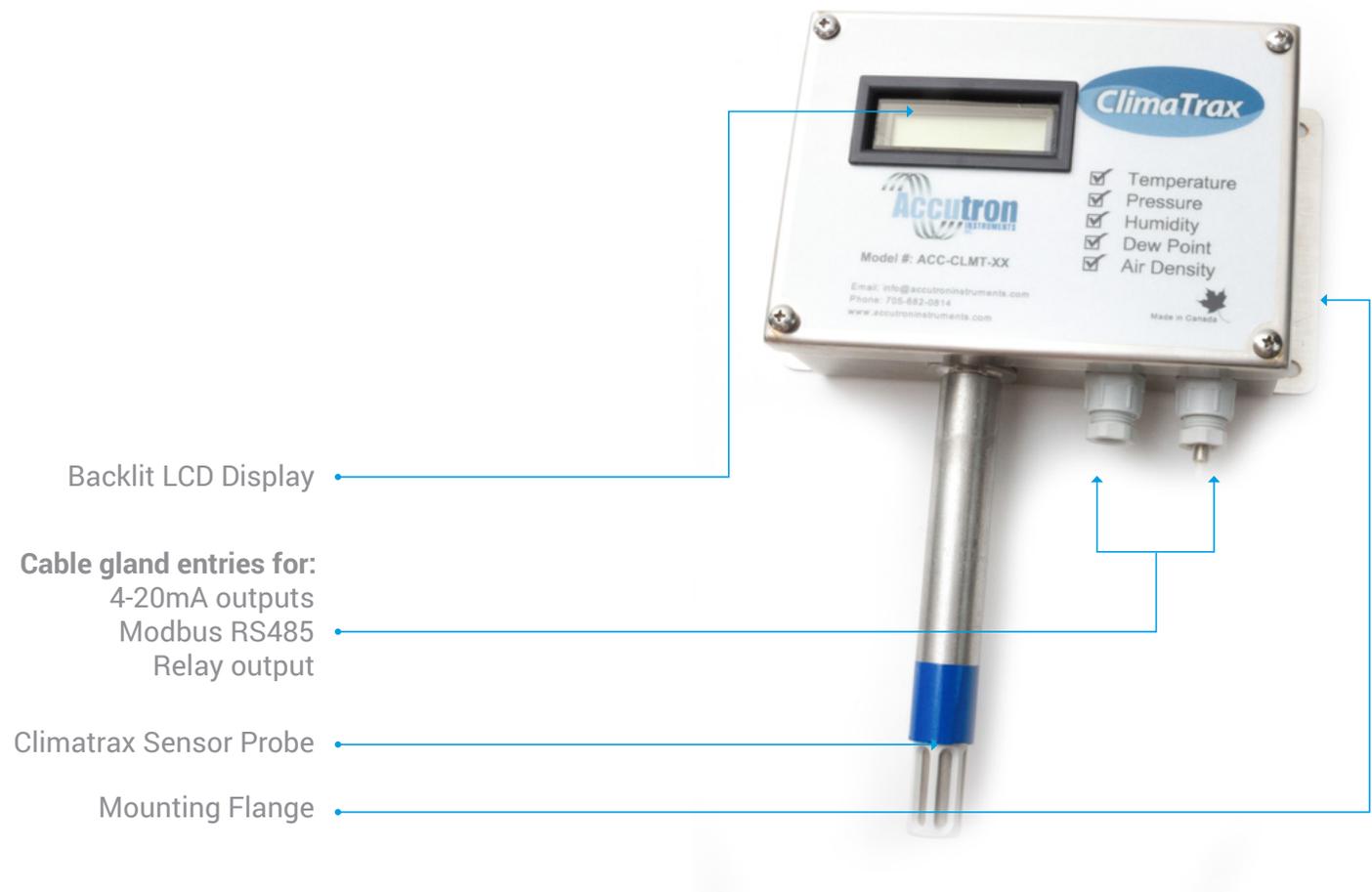
- ✓ Low cost, all-in-one temperature, humidity and pressure sensor
- ✓ Accurate real time measurement
- ✓ No maintenance
- ✓ Factory calibrated
- ✓ Simple installation and operation reduce project costs and start-up times

# 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

# CUSTOMIZATION

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



# SPECIFICATIONS

Process	Temperature, Heat index, Dewpoint	Pressure	Humidity	Air Density	
Measuring Units	°C, °F,	m3/s, cfm, kcfm	%RH	Kg/m3, lbs/ft3	
Ranges	min - max range	Resolution	Accuracy	Long term drift	Response Time
Humidity	0-100%	0.7%	±1.8%	< 0.5 %RH/yr	8 seconds
Temperature	-40° to +85°	0.01°C	±0.8°C	< 0.04 °C/yr	5 to 30 seconds
Pressure	300 to 2000 millibar	0.1 mbar	±1.5 mbar	-1 mbar/yr	8.2 milli-seconds
Electrical rating	Power In	Power Consumption	Max Loop Impedance		
	12 to 30 VDC	< 2.1 watts	700Ω		
Communication Interface	Serial	Analog outputs	Optional		
	Modbus RTU RS485	(4) Four 4-20mA	(2) Two SPDT Form C Relays Modbus TCP (with CommTRAX) Ethernet IP		
Physical					
Enclosure	Rating	Operating temperature	Operating Humidity	Weight	Dimensions
Stainless Steel Polycarbonate	IP65	-40 to 85 °C	0 to 99% RH	1.4 lbs (0.6 kg)	19 cm x 13 cm x 6 cm (28 cm probe)



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