



# CLIMATRAX 2

**Multivariable** Environmental Monitor.

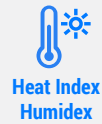
Always know your climate with a modular system  
that is designed for harsh environments.

## A MODULAR MULTIVARIABLE ENVIRONMENTAL MONITOR

ClimaTrax 2 is the newest version of the classic ClimaTrax environmental monitor. It provides accurate and real time measurements of your air quality. This modular system can be upgraded to monitor even more conditions such as heat stress, WBGT, wind chill, and thermal work limit to keep workers safe from dangerous working conditions.

### FEATURES

- Live display of environmental levels
- Visual LED alarms
- 2 Relay activations
- Four 4-20mA outputs
- Local button controls
- Modbus RTU
- Data logging



### VISUAL LED ALARMS

Heat Stress is a condition that occurs when the body is unable to cool itself down. The ClimaTrax 2 can monitor Heat Stress and warn workers visually of changing levels in 5 different ranges.



## HEAT STRESS MONITOR

Attach the Globe Temperature sensor to the ClimaTrax 2 for accurate WBGT and heat stress monitoring.



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## THERMAL WORK LIMIT MONITOR

Attach the SP Ultra single point to measure air speed and direction. Monitor wind chill and thermal work limit when connected with the Globe Temperature.



Thermal Work Limit is an index that predicts the maximum work level that can be sustained without exceeding a safe core temperature and sweat rate. The ClimaTrax 2 can be configured to custom work/rest cycles, alerting workers visually at each level.



Globe Temperature



WBGT Inside



WBGT Outside



Air Speed



Air Direction



Wind Chill



Thermal Work Limit



## ACCURATE WORKPLACE ENVIRONMENT MONITORING

ClimaTrax 2 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. Connect the ClimaTrax 2 to your PLC network with modbus RTU.

# CLIMATRAX 2 SPECIFICATIONS

## ACCESSORIES

### + Probe

#### Measures

Temperature (°C, °F)  
Pressure (kPa, mBar, inHg)  
Humidity (%RH)

#### Min - Max Range

-40° to 85°  
300 to 2000 millibar  
0-100%

#### Resolution

0.7%  
0.01°C  
0.1 mbar

#### Accuracy

±0.8°C  
±1.5 mbar  
±1.8%

#### Outputs

Air Density (kg/m<sup>3</sup>, lbs/ft<sup>3</sup>)  
Dew Point (°C, °F)  
Heat Stress Index (°C, °F)

#### Physical

Polycarbonate Probe

#### Weight

1.76 lbs (0.78 kg)

### + Globe Bulb

#### Measures

Globe Temperature (°C, °F)  
WBGT Inside (°C, °F)  
WBGT Outside (°C, °F)

#### Min - Max Range

-40° to 60°

#### Resolution

0.01°C

#### Accuracy

±0.2°C

#### Physical

6" copper globe with polyester coating

#### Weight

1.76 lbs (0.78 kg)

### + Single Point

#### Measures

Air Speed (m/s, ft/s, ft/min)  
Direction (°)

#### Min - Max Range

0 - 40m/s  
(0 - 360°)

#### Resolution

0.01 m/s, 1°

#### Accuracy

± 3% (@25°C)

#### Outputs

Wind Chill (°C, °F)  
Thermal Work Limit (w/m<sup>3</sup>)

#### Physical

Polycarbonate

#### Weight

0.62 lbs (0.28 kg)

## ENCLOSURE

### Communication

#### Outputs

4-20 mA outputs (x4)  
SPDT Form C Relays (x2)

#### Protocol

Modbus RTU RS485

#### Baud Rates

9600  
19200  
115200

#### Parity

None  
Odd  
Even

### Electrical Ratings

#### Power In

15 VDC to 24 VDC

#### Power Consumption

< 2.1 watts

#### Max Loop Impedance

700Ω

### Physical

#### Enclosure

IP65 Rated

#### Weight

1.4 lbs (0.6 kg)

#### Operating Temperature

-40 to 60 °C



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