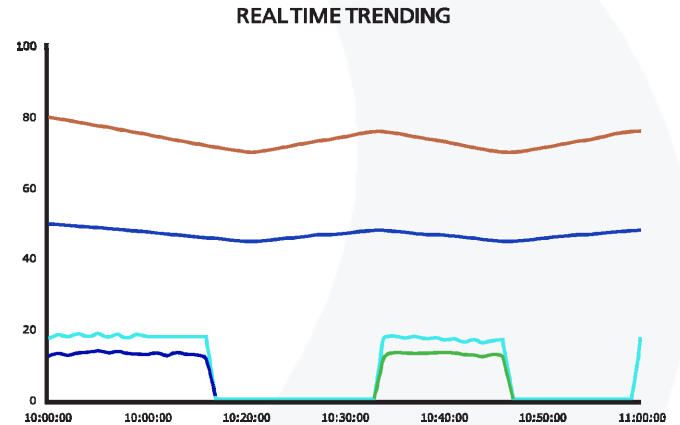


Intelligent Monitoring System

Add-on package for intelligent monitoring and logging of performance and health of environmental control equipment

FEATURES:

- Factory certified for use in the following locations:
 - General purpose (non-hazardous)
 - Class I, Division 2, Groups B/C/D, T3 (200°C/392°F)
- Single or 3 phase operation in 60 or 50 Hz environments
- Discrete and analog sensing methods integrated to PLC
- Performance monitoring, logging, and alarming by PLC
- Output to local HMI or remote SCADA system
- Built-in, step-by-step trouble shooting and repair guide for alarms
- Preventive maintenance notifications
- Built-in alarms based on set point violations
- Real-time trending
- Historical trending
- Data logging for trend analysis



MONITORED CONDITIONS:

- Indoor temperature and relative humidity
- Total system cooling/heating capacity delivered to room
- Heater current draw
- Input voltage
- Room air pressure
- Ventilation air flow and/or air change rate
- Supply and return air flow
- Fresh air filter pressure drop to indicate possible dirty, blocked, or missing filter
- Refrigerant system monitoring with alarms for iced/blocked/dirty coil, or refrigerant leak.
- Motor and compressor current draw, cycling, and runtime
- System trouble

APPLICATIONS:

- Shield Air (Birdwell and Marc Climatic) environmental control systems in remote locations and/or critical applications