Complete Blower Process Control System

Description

The sMAC-PRO[™] master control panel provides a quick and easily deployable solution for installations in need of automated blower sequencing and process control. By interfacing with multiple process variable inputs the sMAC-PRO[™] can provide automated sequencing of the blowers as well as automated control of system flow control valves, thereby giving you fully automated control of the entire aeration process. The sMACPRO[™] utilizes Most-Open-Valve (MOV) control philosophies to minimize system pressure and significantly reduce operating costs. The system is fully configurable to fit your application and has additional features such as remote monitoring and control capability, ethernet or hardwired connectivity, and a 15" touch screen interface.

Control Methods

Blower Sequencing + Process Control via Aeration Flow Control Valves

Control Modes

DO, Ammonia, Flow, Pressure

Available Protections & Functionality

Process Control via DO and Ammonia Aeration Zone Valve Control Aeration Zone Flow Meter Monitoring Equipment Sequencing Run Time Balancing Communication Monitoring Equipment Monitoring Header Temperature Monitoring Header Pressure Monitoring Header Blow-Off Valve Control

Documentation, Testing & Startup Services

Operation Manuals System Integration Support Documents Factory Acceptance Testing (witnessed available) Installation Support Commissioning & Training

Standard Panel Specifications*

Enclosure Type	Lifetime Warranty with Standard Hardware
Enclosure Rating	36H x 30W x 10D
Programming Software F CPU I Internal Memory S Expansion Memory S Communications F	SD Card - 2GB ProfiNet, EtherNet/IP, Modbus TCP, MQTT, OPC UA (more options available) x3 RJ45

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Discrete Inputs	x16
Discrete Outputs	x16
Analog Inputs	x40
Analog Oututs	x12

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sMAC-PRO[™]

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*Customization may affect the standard listed specifications

Other Product Features

High-Resolution Analogs LED Fuse Blocks 120V Convenience Outlet Ethernet Switch Electrical Surge Protection Isolated Instrument Ground

Available Options

Alternate PLC Brand (Allen Bradley, Siemens, Schneider, Other) Alternate HMI Brand (Allen Bradley, Siemens, Schneider, Other) Type 4X or Type 12 Enclosure Hinged HMI Cover Interior Light Alarm Beacon or Siren Pilot Devices - Push Buttons, Switches, or Indicator Lights Ethernet Switch - Managed or Unmanaged Cooling - Fans, Vortex Cooler, or Panel Mount A/C Panel Heater Purge Systems Other Approval Ratings

LSB sMAC-Pro[™]-Process Control Panel 23

