



MODEL SLOC-MC

Description

The sLOC-MC™ for VFD is designed for users looking for variable frequency drive control and to protect and monitor the full health of their multistage blower installation. This control package is fully configurable to fit your application and has additional available features such as remote monitoring and control capability, ethernet or hardwired connectivity, and a 10" touch screen interface.

Lone Star Blower and Compressor has developed state of the art surge prediction and detection algorithms which are included with every sLOC-MC™ local control panel. Combined with active surge avoidance techniques, these added protections surpass what is offered by other market participants and ensure maximum reliability and system up-time.

Control Options

Control Methods	Primary: Variable Frequency Drive Speed Control Auxiliary: Actuated Blow-Off Valve or Recirculation Valve
Control Modes	Speed, Capacity %, Discharge Pressure, Inlet Pressure / Vacuum, Other Process Variable



Available Protections & Functionality

- Active Surge Avoidance
- Surge Prediction & Detection
- Complete Blower Monitoring from Any Instrument
- Blow-Off / Recirculation Valve Control

Documentation, Testing & Startup Services

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



Standard Panel Specifications*

*Customization may affect the standard listed specifications

Approvals	UL/ULC 508A
Warranty	Lifetime Warranty with Standard Hardware
Enclosure Size	30H x 24W x 10D
Enclosure Rating	TYPE 4
HMI	10" Phoenix Contact WP 6101-WXPS
PLC	
Model	Phoenix Contact PLCnext AXC F 2152
Programming Software	PLCnext Engineer (Free Software)
CPU	Arm® Cortex® A9 2x 800 MHz
Internal Memory	512MB
Expansion Memory	SD Card - 2GB
Communications	ProfiNet, EtherNet/IP, Modbus TCP, MQTT, OPC UA (more options available)
Ethernet Connections	x2 RJ45
Operating Temperature	-25°C to 60°C
I/O	
Discrete Inputs	x16
Discrete Outputs	x16
Analog Inputs	x16
Analog Outputs	x4
RTD Inputs	x8

Other Product Features

- E-Stop & Status Light
- High-Resolution Analogs
- LED Fuse Blocks
- 120V Convenience Outlet
- 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
- Freestanding 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

* Information is approximate and can change without notice

* Air Performance Based on 1 Atm, 68F/20C, 36% RH and 3550 rpm