



# sLOC-MC™

## MSCB Blower Monitoring

## Multistage Blower - Blower Monitoring

### Description

The sLOC-MC™ Monitoring Panel is designed for users looking to protect and monitor the health of their multistage blower installation while operating it manually. It is equipped with instrument connections for monitoring and has additional features such as remote monitoring and control capability, ethernet or hardwired connectivity, and a 7" 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. These added protections surpass what is offered by other market participants and ensure maximum reliability and system up-time.

### Control Methods

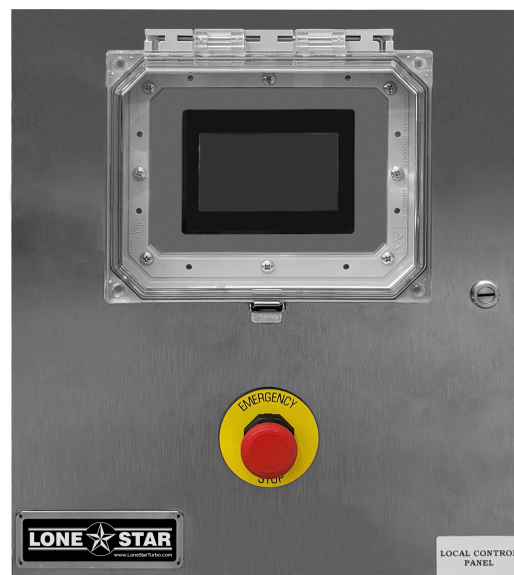
Start/Stop or Run Permissive

### Available Protections & Functionality

Surge Prediction & Detection  
Additional Instrument Monitoring  
Alarm & Trip History  
Automatic Restart on Power Outage

### Documentation, Testing & Startup Services

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



### Standard Panel Specifications\*

Approvals ..... UL / ULC 508A  
Warranty..... Lifetime Warranty with Standard Hardware  
Enclosure Size..... 16H x 14W x 8D  
Enclosure Rating ..... TYPE 4  
HMI ..... 7" Phoenix Contact BWP 2070W

#### 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..... x8  
Discrete Outputs ..... x8  
Analog Inputs..... x8

\*Customization may affect the standard listed specifications

### Other Product Features

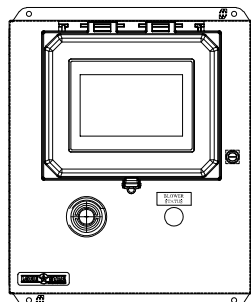
E-Stop Button  
Status Indicator Light  
Electrical Surge Protection  
Isolated Instrument Ground

### Available Options

Alternate PLC Brand (Allen Bradley, Siemens, or Schneider)  
Alternate HMI Brand (Allen Bradley, Siemens, or Schneider)  
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

# RECOMMENDED CONTROL PANEL

- sLOC-MC Monitoring Panel
- 16x14x10 ENCLOSURE
  - PLCnext AXC F 2152 PLC
  - 7" TOUCHSCREEN HMI
  - ETHERNET COMMUNICATIONS
  - x8 DISCRETE INPUTS
  - x8 DISCRETE OUTPUTS
  - x8 ANALOG INPUTS

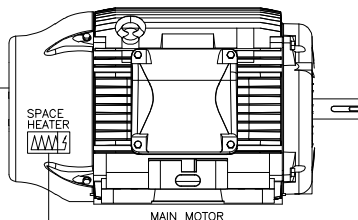


ETHERNET COMM.

RUN COMMAND  
RUN FEEDBACK  
FAULT INDICATION

MOTOR STARTER

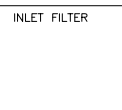
IT



MAIN MOTOR

JY

COUPLING



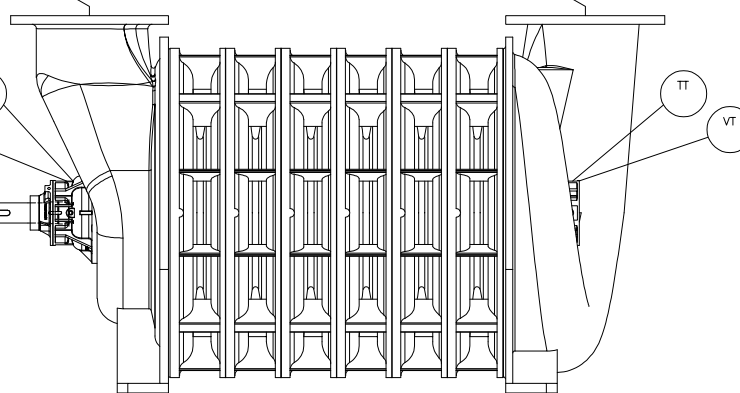
INLET THROTTLE VALVE

TT

FLEXIBLE CONNECTION

VT

TT



BLOWER

PT

CHECK VALVE

DISCHARGE ISOLATION VALVE

TO PROCESS

IT CURRENT TRANSMITTER	HS HAND SWITCH	ZSO POSITION SWITCH OPEN	ZSC POSITION SWITCH CLOSE	ZT POSITION TRANSMITTER	ZC POSITION COMMAND	ZI POSITION INDICATION	PI PRESSURE INDICATION
PT PRESSURE TRANSMITTER	PDT PRESSURE DIFFERENTIAL TRANSMITTER	TE TEMPERATURE ELEMENT	TT TEMPERATURE TRANSMITTER	VT VIBRATION TRANSMITTER	YI STATE INDICATION	JY POWER RELAY	E ELECTRIC ACTUATOR

## NOTES:

- 1) COMMON INSTRUMENTS SHOWN. INSTRUMENTS CAN BE CHANGED TO SUIT APPLICATION.
- 2) CONTROL PANEL WILL INTERFACE WITH MOTOR STARTER FOR START/STOP CONTROL (OR RUN PERMISSIVE)
- 3) SPARE DISCRETE INPUTS CAN BE USED FOR ADDITIONAL MONITORING OF SWITCH TYPE INSTRUMENTS



LONE STAR BLOWER

TITLE

MSCB P&ID

BLOWER MONITORING

SHEET 1 OF 1

REV 1