



sLOC-GC™

Geared Compressor Controls

Centrifugal Multi-Stage Geared Compressor Controls

Description

The sLOC-GC™ local control panels are versatile for any geared compressor application and the design provides simplicity without sacrificing configurability. Control of the compressor can be manual or automated and the system easily integrates with a master control panel or plant SCADA.

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

Control Methods

Inlet Valve or Inlet Guide Vane, Speed, Blow-Off Valve

Control Modes

Base Load Modulation & Trim Modes

Auxiliary Controls and Protections

Active Surge Avoidance
Surge Prediction & Detection
Full Compressor Monitoring
Automatic & Manual Auxiliary System Controls

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..... 36H x 30W x 10D
Enclosure Rating TYPE 4
HMI..... 10" Phoenix Contact WP 6101-WXPS

PLC

Model Phoenix Contact PLCnext AXC F 3152
Programming Software... PLCnext Engineer (Free Software)
CPU Intel® Atom™ x5-E3930, 2x 1.3 GHz
Internal Memory 1GB
Expansion Memory SD Card - 2GB
Communications ProfiNet, EtherNet/IP, Modbus TCP, MQTT,
OPC UA (more options available)
Ethernet Connections..... x3 RJ45
Operating Temperature ... -25°C to 60°C

I/O

Discrete Inputs..... x32
Discrete Outputs x16
Analog Inputs..... x16
Analog Outputs x4
RTD Inputs x16



***Customization may affect the Standard listed specifications**

Other Product Features

E-Stop & Pilot Devices
High-Resolution Analogs
LED Fuse Blocks
120V Convenience Outlet
Electrical Surge Protection
Isolated Instrument Grounds

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