

# LC100

AMCi's primary control panel is PLC-driven, enabling fully automated systems. Programmable for combustible and inert gases and air compressor applications. Applications include single or multistage reciprocating, rotary screw, and centrifugal compression.



# PRODUCT

# SPECIFICATIONS

## MODELS

- LC100C - Gas engine package
- LC100E - Electric motor package
- LC100I - Caterpillar engine package (panel mounted into LC100 enclosure - charges apply).
- Built-in 7 or 10inch HMI's available for all models.
- Cell, satellite, and dual modems are available for all models.

## STANDARD I/O PACKAGE

- 24 digital inputs
- 10 digital outputs (relays)
- 12 analog inputs
- 4 analog outputs
- 10 thermocouples
- 4 RTDs
- 2 pulse counters
- 1 magnetic pickup (LC100C, LC100I)

## FEATURES

- PLC controller (ladder logic with Linux operating system)
- System controlled set points
- Speed control
- Lube-flow and rod-load calculations
- On-board lubricator, cooler, and louvre control
- Automated remote shut down, start up, and auto-restart capable
- Customizable class timers
- Local data trending
- Full fault and run condition local historian
- Bluetooth and Wi-Fi data hub capable
- External status beacon
- External ESD
- Supports multiple users with variable access and security permissions

## I/O EXPANSIONS

- Capacity (Larger enclosures available)
  - 44 Digital Outputs
  - 26 Analog Outputs
  - 162 Inputs
- Expansion modules
  - Digital Inputs: 12/24VDC, positive/negative logic, removable field terminals. (16/32 channel)
  - Digital Outputs: 12/24VDC, positive logic, 0.5 A, removable field terminals. (16/32 channel)
  - Analog Inputs: 4-20mA, 0-5V, 0-10V, 16-bit resolution, channel-by-channel (mA/V) selection. (6/12 channel)
  - Analog Outputs: 4-20mA, 0-5V, 0-10V, 14-bit resolution, channel-by-channel (mA/V) selection. (8 channel)
  - Thermocouples: Isolated K type (other options available), 0.1°C or F resolution, 24 bit. (4/8 channel)
  - RTDs: Isolated PT100 (other options available), 0.1°C or F resolution, 24 bit. (4/8 channel)
  - Relays and additional I/O module combinations available.

## ENVIRONMENTAL

- Operating temperature:
  - Transceiver and antenna: -40°C to +85°C
  - HMI back-up battery: -20°C to +75°C
- Dust and water ingress: IP66
- Cabinet: UL, CSA & NEMA (3R, 4, 12); 12ga steel; powder coated; lifting lugs
  - 316L, duplex, aluminum (5052, 6061)

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## OPERATOR INTERFACE

- 640x480 LCD TFT (10" HMI) and 800x480 LCD TFT (7" HMI) color graphics display with a high-resolution resistive touchscreen. Includes built-in display heater.
- The 10" HMI has 7 function keys and a system key. The 7" HMI has 5 function keys and a system key.
- USB 2.0 On-the-Go port (mini-B 5pin) is available for programming
- USB 2.0 Host port (A) is available for exchanging files with USB flash drives
- (2) RS-232/485 ports support RTU/Modbus Master/Slave, ASCII In/Out, and PLC/Drive downloadable protocols
  - Modbus-RTU/TCP/IP converter available
- (2) Built-in 10/100 ethernet ports
- (2) Integrated CAN ports that support CsCAN and either CANopen, J1939, or Device Net Scanner simultaneously
- Make programming changes to signal types and hardware types on the fly locally (Switch thermocouple types, switch signal types 4-20mA to 0-5V, etc.)
- MicroSD slot, minimum 32GB

## WARRANTY

- 5 year standard limited warranty

## CERTIFICATIONS/COMPLIANCE

- C1D2\*, CE (R&TTE, RoHS 2), FCC, IC, IEC 60529
- \*Verify with your consultant

## POWER

Input voltage: 9 to 32VDC  
 • Load dump protection : +150V; SAE J145

## PHYSICAL

- 48in x 36in x 12in
- 66in x 36in x 12in (including mounting feet)
- 280 lbs. (127kg)

## CONTACT DETAILS

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