LCI-*90i*
PLATFORM

CONTROL AND MONITOR SINGLE OR MULTI-SENSOR SYSTEMS FOR RUGGED EQUIPMENT AND HARSH ENVIRONMENTS

The LCI-90i is a next-generation programmable controller that combines advanced signal-processing capabilities with rugged reliability for new projects and retrofits of existing equipment.

Five fully-sealed push buttons within a heavy-duty 316 stainless steel front panel access an easy-to-follow English language menu for sensor calibration, I/O channel configuration, alarm settings, network settings, and screen layout – all intuitive and right at your fingertips.

Measurement parameters are displayed on a bright 320x240 electroluminescent (EL) display for unmatched 160° readability in all light conditions. Four I/O channels, serial networking capability, plus USB and Ethernet ports provide flexibility in line monitoring, weighing, or SCADA applications. An internal CF disk permits on-board data logging, and the LCI-90i can be linked with remote displays to create a rig/ship-wide monitoring network.

FEATURES AND BENEFITS

- Full programmability via English language menus
- Six alarms, independently linked to any parameter
- Configurable parameter position, scale, and units
- Three modes of analog sensor calibration
- Network configurable
- On-screen diagnostics
- Configuration security
- RS-485, RS-232, USB and Ethernet ports
- On-board CF disk for internal data logging

PROGRAMMABLE CONTROLLERS • TENSIOMETERS • SOFTWARE

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LCI-90*i* PLATFORM

PRECISION THAT LASTS

PROGRAMMABLE CONTROLLER

General Specifications

Display	320x240 graphic, EL Readable in all conditions
Enclosure Size	H 5.7" x W 7.6" x D 5.0"
Operating Temperature	-40°C to 75°C standard
Environmental	Waterproof front panel Watertight rear enclosure or console available
Power	0.75 Amp @ 9-36VDC Isolated, surge protected

Operator Interface Features

- Full programmability via English language menus
- Six alarms, independently linked to any parameter
- Configurable parameter position, scale, and units
- Three modes of analog sensor calibration
- Network configurable
- On-screen diagnostics
- Configuration security
- RS-485, RS-232, USB and Ethernet ports
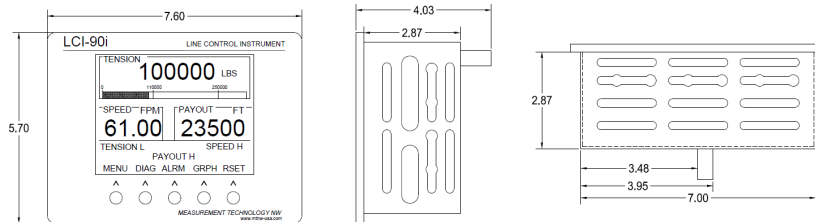- On-board CF disk for internal data logging

Versions:

- **SINGLE-WINCH**
- **MULTI-WINCH**
- **PUMP MONITORING**
- **BULK TANK WEIGHT**
- **CRANE MONITORING**
- **TORQUE DISPLAY**
- **HAZARDOUS LOCATIONS**

Instrument Specifications

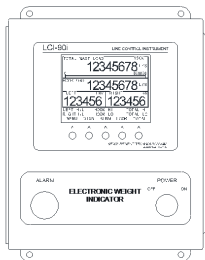|	
Analog Input	4 channels 4-20 mA, 0-5VDC, 0-10VDC, ± 5VDC, ± 20 mV, ± 100 mV
Sensor Excitation	Regulated +5/+12/+24VDC, 0.5 A NAMUR sensor interface
Analog Output	4 channels 4-20 mA, 0-10VDC, 0-5VDC ± 5VDC
Count Input	4 channels Quadrature x1, x2, x4, Count/Direction Up/Down counter 10kHz Bandwidth
Output Relays	4 channels, isolated SPDT dry contact: 125VAC 60VDC @ 1 Amp
Digital Input	4 channels, 0-60VDC, Trigger level: 2.5V
Serial Communication	RS-485, isolated, half-duplex RS-232, non-isolated Ethernet, 10 Base-T, TCP/UDP
Alarms	Measurement Parameters High and low setpoints (any parameter) Accessible via front panel menu interface
Optional Approvals	LCI-90i-IS Version UL Certified Class 1, Division 2 Groups A, B, C, and D, T5

PANEL MOUNT DIMENSIONS

NOTES:
1: Unit fits into 7.15" x 5.25" cutout
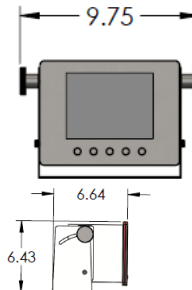2: Mounting brackets require 1" clearance on each side of enclosure
3: All units in inches
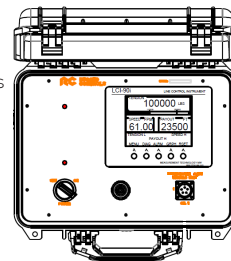

ENCLOSURES

Stainless Steel Enclosure
NOTES:
1: Dimensions: 12" x 10" x 6"
2: Includes sun visor
3: NEMA4X

Gimbal Bracket Enclosure
NOTES:
1: Dimensions in inches
2: Powder coated Stainless
3: NEMA4

Pelican Case Enclosure
NOTES:
1: Dimensions: 14" x 12" x 6"
2: IP67

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