

# LCI-90i

## Line Control Display



The LCI-90i is a new, next-generation line control instrument that combines advanced signal-processing capabilities with the rugged reliability that made the original LCI-90 display a popular choice for new winch projects and retrofits of existing line monitoring equipment.

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

Tension, payout, and line speed are displayed on a bright 320x240 electroluminescent 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.

**Control and monitor speed, tension, and payout (cable or chain) in single or multi winch systems used for equipment deployment, rig/barge mooring, and wherever accurate and reliable line control is required.**

- Full programmability via English language menus.
- Six alarms, independently linked to any high/low setpoint parameters.
- Configurable parameter position, scale, and units.
- Network configurable.
- Three modes of analog sensor calibration.
- On screen calibration, diagnostics, and configuration security.
- Enclosure size: H5.7" x W7.6" x D4.5" (7.15" x 5.25" cutout).
- Watertight enclosure & mount available.
- Ratings: UL, CE, Class1 Div 2, Zone 2 (pending)

**Line Controls - Dual Tension Displays - WinchDAC**

# LCI-90i Line Control Instrument

## Operator Interface Features

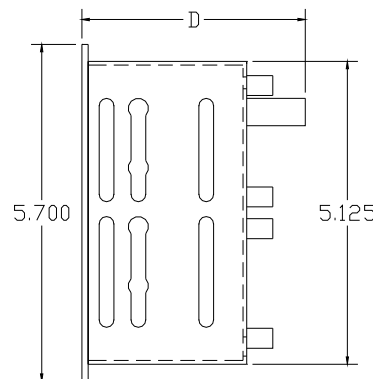
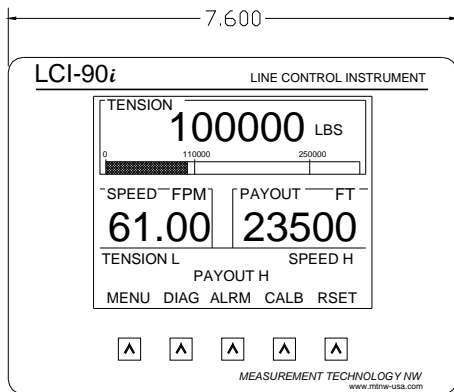
- Full programmability via English language menus
- Six alarms, independently linked to any parameter
- Configurable parameter position, scale, and units
- Three modes of analog sensor calibration
- Network configurable
- On-screen diagnostics
- Configuration security
- RS-485, RS-232, USB and Ethernet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

## General Specifications

Display	320x240 graphic, EL (Optional color TFT) 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 @ 9-36 VDC Isolated, surge protected

## Instrument Specifications

Analog Input	4 channels 4-20 mA, 0-5 VDC, 0-10 VDC, ± 5VDC, ± 20 mV, ± 100 mV
Sensor Excitation	Regulated +5/+12/+24 VDC, 0.5 A NAMUR sensor interface
Analog Output	4 channels 4-20 mA, 0-10 VDC
Count Input	4 channels Quadrature x1, x2, x4 Count/Direction Up/Down counter 10kHz Bandwidth
Digital I/O	4 channels, isolated SPDT dry contact
Serial Communication	RS-485, isolated, half-duplex RS-232, non-isolated Ethernet, 10 Base-T TCP/UDP
Alarms	Tension, Payout, and Speed High and low setpoints (any parameter) Accessible via front panel menu interface



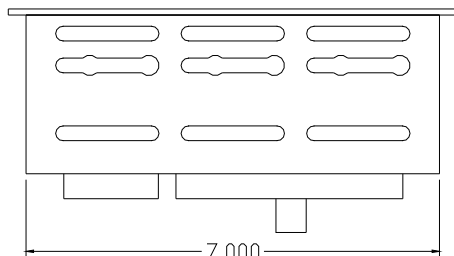
### NOTES:

- 1: Depth varies with I/O configuration  
No isolated analog or digital I/O D = 3.78  
Only isolated digital I/O D = 4.68  
Isolated analog I/O D = 4.73

2: Unit fits into 7.15" x 5.25" cutout

3: All units in inches

4: Panel mount configuration shown



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