MEASUREMENT Technology NORTHWEST

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LCI-90

Line Control Display

The LCI-90 is a UL-listed winch line control instrument designed as a rugged, drop-in replacement for existing line monitoring equipment. A perfect balance of size and functionality, it's the result of a decade of Measurement Technology Northwest's marine workboat, construction, and industrial machine instrumentation experience.

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 readability in all light conditions. Four I/O channels and serial networking capability provide flexibility in line monitoring, weighing, or SCADA applications, and the LCI-90 can be linked with up to 32 remote LCI-90R displays to create a shipwide monitoring network.

Control and monitor line speed, payout, and tension (both cable and chain) in single/multi winch systems used for equipment deployment, fixed-place mooring, barge positioning, drawbridge controls, 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 D4.7" (7.15" x 5.25" cutout).**
- **Watertight enclosure with bracket mount available.**
- **UL Listed Device.**

Line Controls - Dual Tension Displays - WinchDAC

LCI-90 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
- Optional PC data logging interface

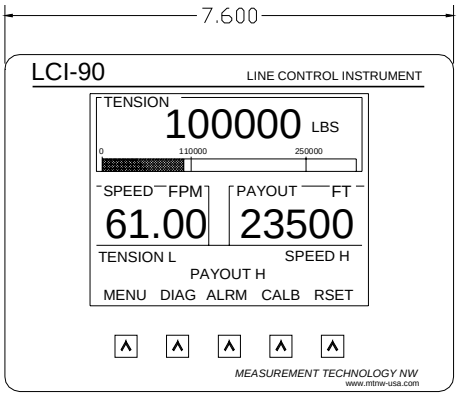
General Specifications

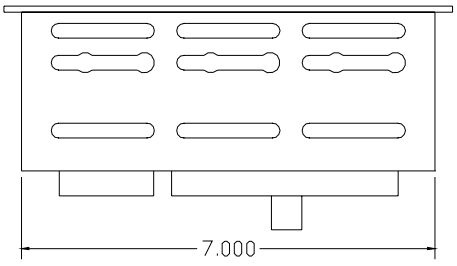
Display	320x240 graphic, EL
	Readable in all conditions
Enclosure Size	H 5.7” x W 7.6” x D 5.0”
Operating Temperature	-40°C to 75°C standard
Environmental	NEMA 4X front panel
	Watertight console*
	Watertight rear enclosure*
Power	0.5 Amp @ 18-36 VDC
	0.1 Amp (100-240 VAC)*
	Isolated, surge protected

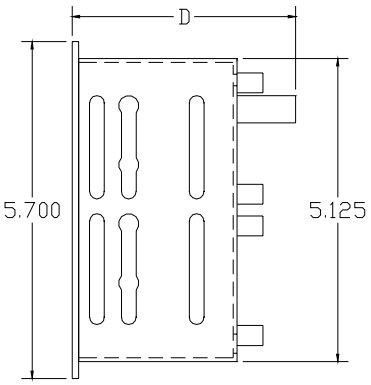
Instrument Specifications

Analog Input	4 channels
	4-20 mA, 0-5 VDC, strain gauge*
	0.01% full scale accuracy
	1500 VDC Isolation*
Sensor Excitation	Regulated 12 and 5 VDC, 0.5 A
	24 VDC unregulated, 0.2 A total
Analog Output	2 channels*
	4-20 mA, 0-10 VDC
Count Input	Quadrature encoder, 5, 12-24 VDC
	Inductive proximity, Hall Effect
	10 kHz Bandwidth
Digital I/O	4 channels*
	Opto modules
	DC output and dry contact
Serial Communication	RS-485*, isolated, 2 wire
	RS-232*, 2 channels, non-isolated
Alarms	Tension, Payout, and Speed
	High and low setpoints

*Option







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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