

March 1, 2006

Measurement Technology NW has received CE certification for all LCI-90 winch line display models, including the LCI-90 "Standard", LCI-90 "Dual Tension", LCI-90 "Drum Counter", and LCI-90 "Quad" models. The CE mark was also awarded to the LCI-90R remote display.

LCI-90 displays have successfully passed a series of Electromagnetic Immunity (EMI) and Electromagnetic Compatibility (EMC) tests demonstrating full compliance with the requirements of EMC Directive 89/336/EEC.

EMI/EMC Tests Performed under EMC Directive 89/336/EEC:

EN Standards: EN 61326-1: 1997 + A1: 1998, Class A

Immunity Test: EN/IEC 61000-4-2: 1995 + A1: 1998 + A2: 2001

(Electrostatic Discharge)

EN/IEC 61000-4-3: 2002 + A1: 2002

(Radiated EM Field)

Emission Test: EN 55011: 1998 + A2: 2003

(Radiated Emissions)



MTNW's popular LCI displays are used to monitor line speed, payout, and tension (cable or chain) in single or multi-winch systems used for equipment deployment, towing and ship assist activities, barge positioning, fixed-place mooring, dredging, and wherever accurate and reliable line control is required.

The LCI-90 display is a perfect balance of size and functionality. With a heavy-duty 316 stainless steel front panel and fully sealed pushbuttons, it is designed to perform flawlessly in extreme environments from -40°C to +75°C. The front panel pushbuttons access an easy-to-follow English language menu for field calibration changes, I/O channel configuration, alarm or network settings, and screen layout. Tension, payout, and line speed are displayed on a bright, high performance 320x240 electroluminescent screen for unmatched readability in all light conditions.

In addition to a local visual display of line parameters, all LCI-90's can echo the data for all three parameters through an isolated RS-485 serial communication port. This port is used to communicate line parameters to the ship's central computer and/or a remote monitoring computer running WinchDAC software.

Measurement Technology NW's exclusive WinchDAC software can be used with all LCI displays. This versatile Windows-based program displays active winch line data on a central PC computer interface. WinchDAC software adds the capability to log and summarize data by winch and cast, replay the time history plot (for any parameter) from past activities on a second screen, and gives operators the ability to customize the on-screen computer display to their specific requirements. Additional details for each winch can be viewed by clicking on that particular winch icon. WinchDAC software is available in single and multi-winch versions.

Measurement Technology NW

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Declaration of Conformity

Measurement Technology NW, 4211 - 24th Avenue West, Seattle, WA, certifies and declares under our sole responsibility that the LCI-90 & LCI-90R winch display models (including Standard, Dual Tension, Drum Counter, and Quad versions) comply with European Community Directive 89/336/EEC.

This product has been tested to the following standards:

EMC Directive 89/336/EEC

EN Standards: EN 61326-1: 1997 + A1: 1998, Class A

Immunity Test: EN/IEC 61000-4-2: 1995 + A1: 1998 + A2: 2001
EN/IEC 61000-4-3: 2002 + A1: 2002

Emissions Test: EN 55011: 1998 +A2: 2003

and was found to be in full compliance. All LCI-90 displays carry the CE Mark:



Date of Issue: March 1, 2006

Authorized Signature:

A handwritten signature in black ink, appearing to read 'Tomas Rezanka'.

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Title: Director, Line Control Instruments

Location: Seattle, Washington (USA)



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