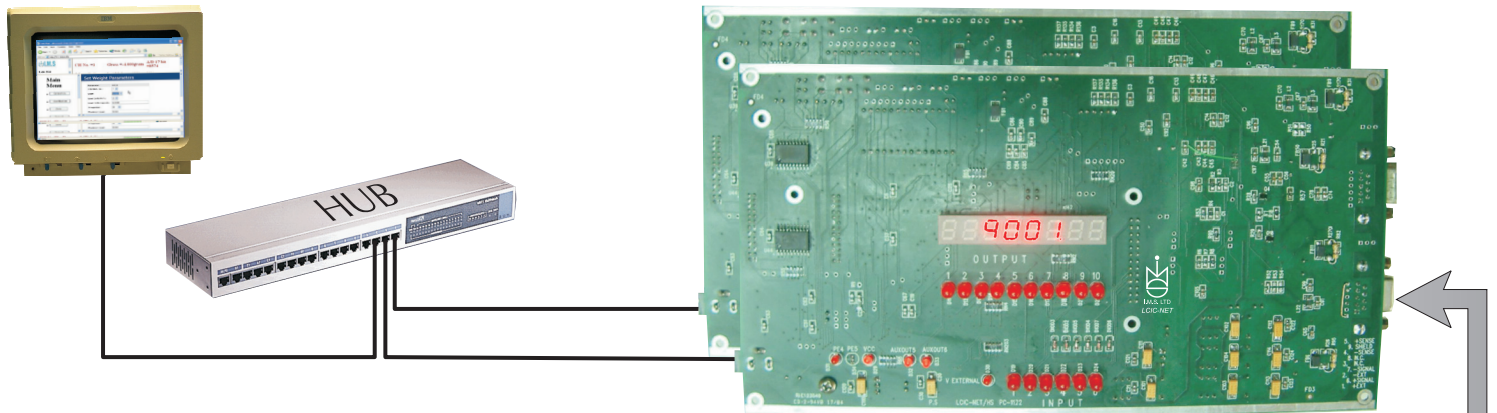


Load-Cell Interface Card for the NET—LCIC-NET

Ethernet Interface with TCP/IP Protocol

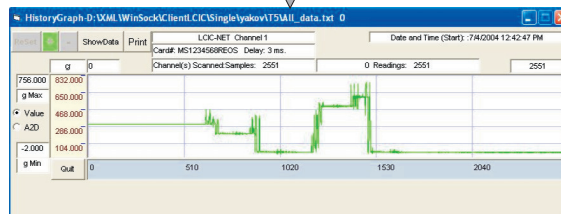
Especially designed to fit real-time weighing applications, such as weighing trucks in motion (WIM), measuring forces, or monitoring unlimited number of scales over a TCP/IP Ethernet network.



Typical Applications



Livestock Control



Real Time/Force Measurement



Weighing Trucks in Motion

The **LCIC-NET** is a stand-alone 1- or 2-channel high resolution and very fast sampling rate Load Cell Interface that requires no other interfacing accessories. The **LCIC-NET** comes with a built-in Web server that delivers pages for easy calibration, password control, alternate TCP/IP address set-up and more. Simply connect the **LCIC-NET** to your network hub or directly to a network card in your PC, launch your browser, enter the default TCP/IP address, set your defaults, run the calibration—and you are done. Now you may read your scales on your existing TCP/IP network or by preparing your own application.

The **LCIC-NET** also has an on-board numeric display and 16 I/Os, enabling logic control through the user's application program. The **LCIC-NET** comes with straight-forward examples for the programmer showing how to communicate under VB6.0 or .Net and uses the popular and most common XML protocol that allows fast communication for real time applications.

I.M.S. INDUSTRIAL MEASUREMENT SYSTEMS LTD.
P.O. Box 6305 Haifa, Israel 31062
Tel.: 972-4-811-0877
Fax: 972-4-811-0875 US Fax: 1-775-659-4511
email: info@ims.co.il
http://www.ims.co.il

Provided with the board is our powerful **LCIC-Net-Monitor** application that runs on your PC and allows reading the weight, monitoring the I/O and even monitoring real time readings in a rate of 1000 samples per second, showing it in a graph and storing the results in a file.

Load-Cell Interface Card for the NET—LCIC-NET

Typical Applications:

- WIM—Weighing trucks in motion (axle by axle)
- Watching any scale from any PC in the network with a standard web browser
- Peak detector and analyzing forces
- Static weighing + I/O control over valves, gates, etc.
- Collecting data from many scales around the plant using the existing PC network

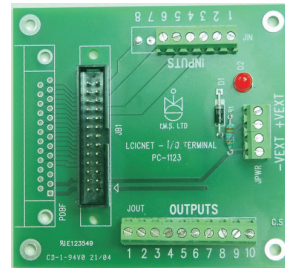
Main Features:

- On-board 8-digit numeric display
- 10 outputs and 6 inputs all are opto-isolated
- One fast output triggered on-board by a set-point
- Supports all standard strain-gage based Load Cells
- User-friendly calibration by using a standard web browser
- Two modes for reading: Single Weight or Fast Weight
- Software filters on board-parameter setup
- Calibration parameters reside in the **LCIC-NET** memory
- Changing of IP address allows the connection of up to 256 **LCIC-NET** boards
- No need to run with a long Load-Cell Cable, as the board can reside next to the scale
- Changing the initial setup and calibration is password-protected
- Large on-board memory stores data until the next read request

Hardware Specifications:

- Load Cell excitation voltage: 10 VDC
- Internal A/D resolution: 24 bit (17 bit in use)
- Internal A/D sampling: 1000 per second
- External power supply: 9 VDC 1.2 A 110-220 VAC (supplied)
- Load Cell range covered: 1 - 3 mV/V

- Number of load cells: up to 6 (350 Ω each)
- Outputs: 10 Opto-isolated outputs current sink 1.5 A 5-30 VDC
- Inputs: 6 Opto-isolated inputs
- On board display: 8 digits + LED for I/O status
- Communication: Ethernet TCP/IP XML protocol
- **LCIC-NET** dimensions: 246 x 135 x 30 mm
- I/O Screw Terminal dimensions: 81 x 76 mm
- Connectors:
 - RJ45 for the network cable
 - “D” type 9 pin for the Load Cell
 - I/O Screw Terminal (option)

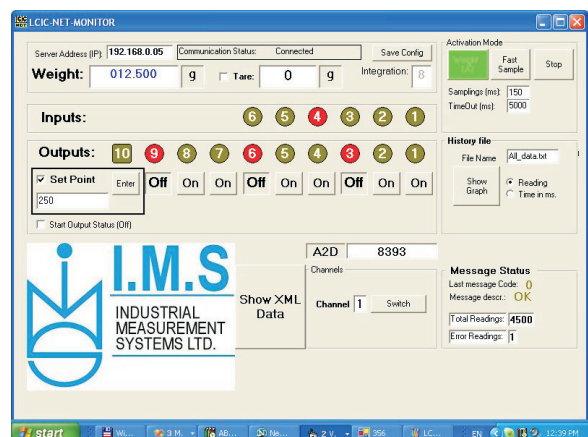


Software Included:

Scale Calibration and initial setup (residing inside the board as web pages) allows access from a standard web browser.

Examples for the programmer in VB6.0 and .NET on how to communicate with the **LCIC-NET** by using the popular XML protocol are provided.

Our powerful **LCIC-NET-Monitor** application runs on a PC and displays the weight, controls the I/O, displays I/O status, monitors real time samples in 1000 readings per second—and shows graphs and keeps the results in a file for later analysis with tools such as Microsoft Excel®.





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