

Multi-Scale Weight Controller



A multi-scale, general purpose, weight controller

The Hardy Instruments HI 3030 is a flexible, world-class weight controller that can monitor and control up to four scales simultaneously. It can act as a front end to a PLC, PC or DCS system for applications such as level, batching, filling, dispensing, and check weighing, or as a stand alone for simple control or weight monitoring.

NETWORKING

As a bridge to a PLC, its four scales can share one network connection, whether it's DeviceNet, ControlNet, Allen-Bradley Remote I/O, or Profibus. You can also link additional HI 3030s with their multiple scales and share the same network connection. Just like the other Series 3000 products, you can configure or monitor the HI 3030 operating using your Palm OS PDA or your web browser.

THE PLC SOLUTION

So let's say you have eight storage tanks and you would like to monitor and control the weight in each of the tanks using your PLC. You could buy two HI 3030s, each with four scale inputs, and tie them together with the built-in Ethernet communications. Bring all eight scales back to your PLC using just one of the HI 3030s and its built-in DeviceNet, or via an optional



ControlNet, Profibus, or Allen-Bradley Remote I/O network card. You save wiring, time and money.



THE STAND-ALONE SOLUTION

So let's again take the example of the eight storage tanks, but this time you wish to control tank weights outside of the PLC. No problem! With or without a connection to the PLC, you can set up the HI 3030 to automatically refill each of the storage vessels when they get to their individual "low" levels. Now, you can also save on programming costs.

COMPLETE FLEXIBILITY

With the flexible I/O mapping and twelve independent internal setpoints in the HI 3030, you can direct alarms or enunciators to a local output or to any point on the plant network. You can even have an alarm emailed directly to you! If you need more physical I/O, you can connect any company's DeviceNet I/O to the HI 3030 because it has a Master DeviceNet port. So you could even use it as a gateway from ControlNet to DeviceNet for some local I/O, whether it had anything to do with weighing or not. Don't need a display or keypad on the controller? Use the Blind Remote HI 3030R, and control or configure the unit via your web browser or your local network. You can even use a Palm PDA as a "virtual" local keypad and display via its standard IR port.



INTEGRATED TECHNICIAN®

The HI 3030's Integrated Technician in conjunction with an IT Junction Box provides built-in System diagnostics that allow you to troubleshoot and diagnose your weighing system right from its front panel, a PDA, your intranet or the internet. You can read individual load sensor voltages and weights, make comparisons, and isolate individual system components for quick and easy troubleshooting.

Hardy 3000 Series Controllers

Features & Benefits

- **Real Team Player with Your Network**
 - Connect via common plant networks
 - Use it as DeviceNet Master
 - Use it as a gateway between networks
 - Assign I/O anywhere on the network to save on setup and wiring costs
- **True Human Interface: Hardy-Links**
 - **Web-Link:** Interact using your computer browser
 - **PDA-Link:** Download and upload setup data wireless with your PDA
 - **Up-Link:** Download the latest firmware for your controller from our website
- **Ease of Support**
 - **Diagnostics:** Lets you isolate system problems from the comfort of your control room
 - **WAVERSAVER®:** Ignores plant vibration on and around scales
 - **C2®:** Electronic Calibration without test weights
 - **SMM (Secure Memory Module):** Automatic backup of configuration data for easy transfer

Learn more at www.hardyinst.com/weight

HARDY
INSTRUMENTS

COMPONENTS TO COMPLETE YOUR HARDY INSTRUMENTS SYSTEM

• HI 3030R Blind Remote

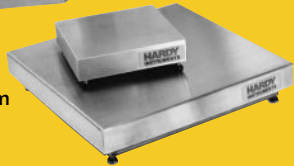


• Hardy Platform Scales and Load Points

Hardy Instruments carries a wide variety of strain gauge load points and scale bases to accommodate your applications requirements.



ADVANTAGE Series Load Point with C2[®] Calibration



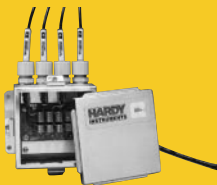
Platform Scales

• Hardy C2[®] Certified Cable

This 8-conductor cable is designed for optimizing weight and load sensor characteristic signals from the junction box to the instrument.

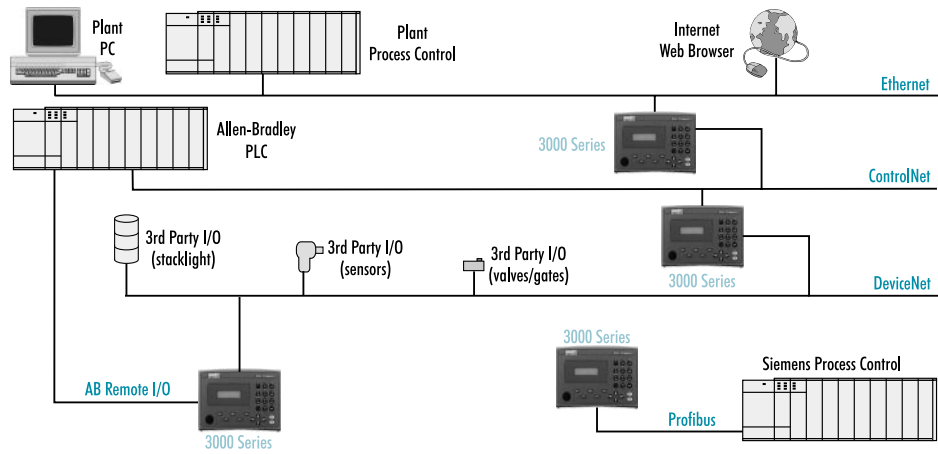
• Hardy Junction Box (HI 215IT Series) with INTEGRATED TECHNICIAN[®]

This Nema 4 rated waterproof enclosure sums from one to four load sensor signals. Its unique design allows for easy electronic isolation and troubleshooting of the weighing system.



HARDY INSTRUMENTS

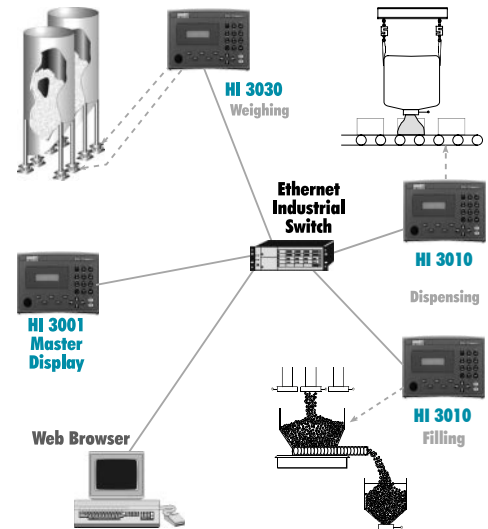
NETWORK CONFIGURATIONS



SPECIFICATIONS

- **Display**
4 line x 20 character backlit LCD
5 x 7 dot matrix
- **Update Rate**
55 times per second
- **Averaging**
Sliding up to 250 readings in single unit increments
- **Resolution**
Display 1:985,000 (3mv/v load cells)
Internal 1:1,048,000
- **Standard Interfaces**
 - Ethernet: 10/100base T; embedded web server
 - DeviceNet: master scanner
 - Infrared (IR): wireless connection to Palm OS PDAs
 - Serial RS 232: simplex to Printer or bi-directional to remote display
- **Stable Weight Reading**
WAVERSAVER[®] 0.25HZ minimum
- **Calibration Techniques**
 - C2[®], Second Generation Calibration: electronic
 - Traditional calibration with test weights
- **Instrument Local I/O**
 - 5 mapable inputs optically isolated
 - 4 mapable outputs 48-240VAC form A
 - 3rd party mapable over DeviceNet
- **Load Point Excitation**
5VDC power drive up to 16 350-ohm load cells
- **Power Requirement**
108-264VAC, 47-63hz or 12-24 VDC
10 Watts max.
- **Operating Temperature**
-10° to 50° C (14° to 122°F)
- **Storage Temperature**
-20° to 70° C (-4° to 158°F)
- **Enclosure**
 - Panel Mount
 - Swivel Mount
- **Dimensions**
Panel Mount:
 - Depth: 6.03" (153mm) with rear cap
 - Panel cutout: 8.94" W x 6.63" H (227mm W x 169mm H)
- **Approvals**
CE, UL, CUL (all pending)

HARDY CONTROL-LINK NETWORK



MODELS

- HI 3030 Weight Controller**
- LC Single Scale
 - JB Single Scale with built-in junction box
 - 2S Dual Scale
 - 4S Four scale

OPTIONS

- Built-in Junction Box
- Environmental rear cap
- Swivel mount bracket
- Allen-Bradley RIO
- ControlNet
- Profibus
- Multiple analog out
- DC power
- DC relay outputs

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ISO 9001
CERTIFIED
Since 1993

HI 3030

To learn more about the HI 3030, visit our web site:
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