

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 is 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, web browser, or network interface.

THE PLC SOLUTION

Let us presume you have eight storage tanks and 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 eights scales back to your PLC using just one of the HI 3030s and one of its optional technologies: DeviceNet,



ControlNet, Profibus, or Allen-Bradley Remote I/O network card. If you are in need of more than eight storage tanks, you can connect up to 16 controllers, for a total of 64 scales, through that same single interface. You save wiring, time, and money.



THE STAND-ALONE SOLUTION

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! 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

COMPONENTS TO COMPLETE YOUR HARDY INSTRUMENTS SYSTEM

- **HI 3030R Blind Remote**
(where a keyboard or display doesn't make sense)



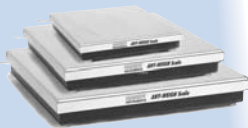
- **Hardy Platform Scales and Load Points**

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



ADVANTAGE Series Load Point with C2® Calibration

ANY-WEIGH® Scales



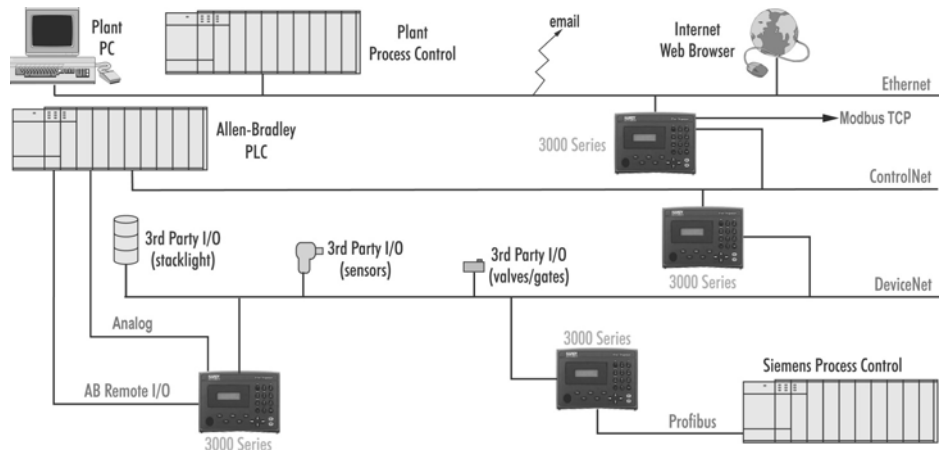
- **Hardy C2® Certified Cable**
This 8-conductor cable is designed for optimizing weight and load sensor characteristic signals from the junction box to the instrument.

- **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.



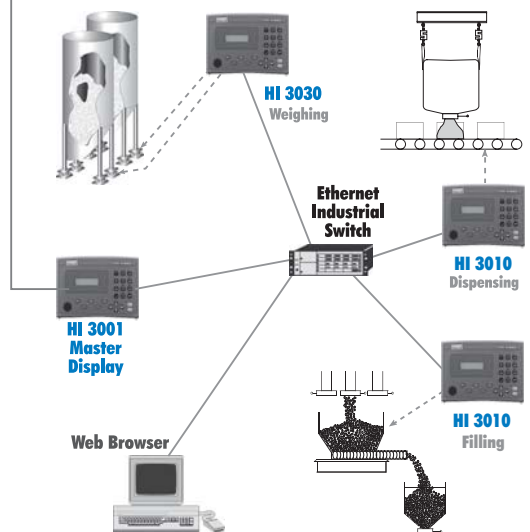
NETWORK CONFIGURATIONS



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
Infrared (IR): wireless connection to Palm OS PDAs
Serial RS 232: simplex to Printer
- **Stable Weight Reading**
WAVERSAVER® 0.25HZ minimum
- **Calibration Techniques**
C2®, Second Generation Calibration: electronic
Traditional calibration with test weights
- **Instrument Local I/O**
Five mappable inputs optically isolated
Four mappable outputs 48-240VAC form A
Third party mappable
- **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

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
- DeviceNet Master Scanner
- Allen-Bradley RIO
- ControlNet
- Modbus TCP
- Profibus
- OPC
- Multiple analog out
- DC power
- DC relay outputs

ISO 9001
CERTIFIED

HI 3010/1103

To learn more about the
HI 3030, visit our website:
www.bl-im.de
or
www.hardyinst.com
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