HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

HI 3030
Multi-Scale Weight Controller

Applications
PROCESS WEIGHING

- *Batching/Blending*
- *Filling/Dispensing*
- *Level-by-Weight*
- *Check Weighing*
- *Weight Monitoring*

Features

THE HARDY PROCESS TOOLBOX

The Hardy Process Toolbox is a set of productivity tools that support process weighing functions. Each tool saves time, increases accuracy, improves efficiency or reduces risk in process weighing applications.

PRODUCTIVITY
HARDY
PROCESS TOOLBOX

WAVERSAVER®
- Ignores vibration on and around scales

C2® AND eCAL™ ELECTRONIC CALIBRATION
- Electronic calibration without test weights

C2® eCAL™

INTEGRATED TECHNICIAN®
- Weighing system monitoring and troubleshooting

IT INTEGRATED TECHNICIAN™

The Hardy HI 3030 is a flexible 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 or DCS, optional interfaces of EtherNet/IP, DeviceNet, ControlNet, Profibus or Analog provide communications for up to four scale systems. 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 also configure or monitor the HI 3030 using a web browser or network interface.

THE PLC SOLUTION
Imagine 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 EtherNet/IP 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.

INTEGRATED TECHNICIAN®
The HI 3030's INTEGRATED TECHNICIAN, used in conjunction with an IT Junction Box, provides built-in system diagnostics that enable you to troubleshoot and diagnose your weighing system right from its front panel or a web browser. You can read individual load sensor voltages and weights, make comparisons, and isolate individual system components for quick and easy troubleshooting.

COMPONENTS TO COMPLETE YOUR HARDY SYSTEM

Hardy Bench Scales, Floor Scales and Load Points

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

ADVANTAGE Series Load Point with C2 Calibration

Hardy HIBSX Bench Scales

Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules

HI 3000 Series HI 4050 Controllers and HI 6000 Series

STOCK MAKE PACK SHIP

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
- Serial RS 232: simplex to printer

Stable Weight Reading
- WAVERSAVER® 0.25Hz minimum

Calibration Techniques
- C2® electronic calibration
- Traditional calibration with test weights

Instrument Local I/O
- Five mappable inputs optically isolated
- Four or seven mappable outputs 48-240VAC Form A
- Third party mappable

Load Point Excitation
- 5VDC power drives up to 16 350-ohm load cells

Power Requirement
- 108-264VAC, 47-63Hz or 12-24 VDC
- 25 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: 6.03" (153mm) with rear cap
- Panel cutout: 8.94" W x 6.63" H (227mm W x 169mm H)
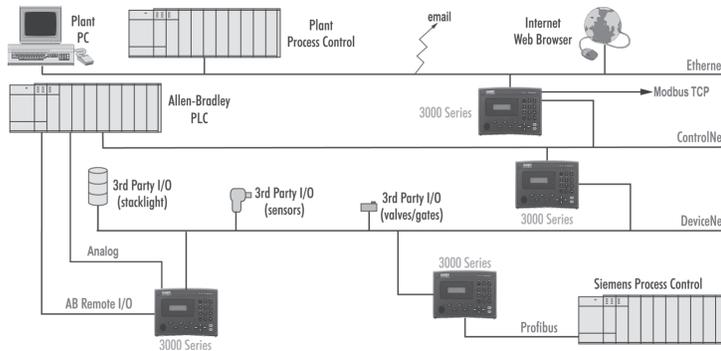
Approvals
- CE, UL/CUL, NTEP, Canada Weights & Measures

Warranty
- Two-year warranty against defects in workmanship

All specifications subject to change without notice. Please contact the Hardy factory or visit our website for the latest specifications.
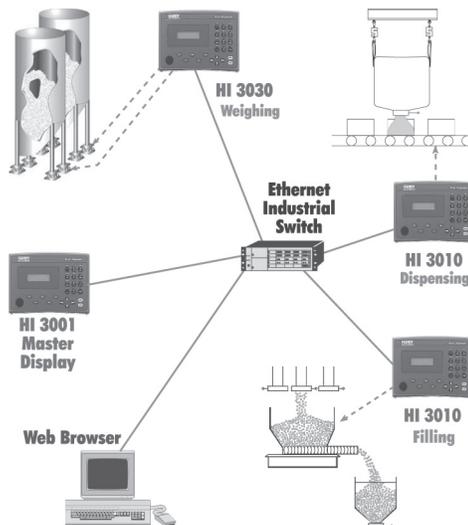

NETWORK CONFIGURATIONS

MODELS

HI 3030	
HI 3030R	Blind Remote
-LC	Single scale
-JB	Single scale with built-in junction box
-2S	Dual scale

HARDY CONTROL-LINK NETWORK

HI 3030 Weighing
HI 3001 Master Display
Web Browser
Ethernet Industrial Switch
HI 3010 Dispensing
HI 3010 Filling

OPTIONS

- Built-in junction box
- Enviromental rear cap
- Swivel mount bracket
- DC power
- DC relay outputs
- -4S Four scale
- Profibus
- EtherNet/IP
- DeviceNet master scanner/slave
- Modbus TCP
- Multiple analog out

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