

HI 1734-WS POINT I/O Series Weight Processing Module

PROCESS WEIGHING

Applications

- Inventory Measurement
- Level Measurement
- Batching/Blending
- Filling/Dispensing/
Dosing



THE HARDY PROCESS TOOLBOX

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



Electronic calibration without test weights



Weighing system monitoring, diagnostics and troubleshooting



Vibration immunity from mechanical noise



Easy to configure and setup with a Rockwell Automation PLC

Rockwell EDS_Add-on-Profile

The Hardy HI 1734-WS module is ideal for applications where stable weight data and low-cost of ownership are critical components to successful machine and process design.

Designed exclusively for weight processing, the HI 1734-WS enhances productivity of manufacturing systems by digitally suppressing noise and dramatically reducing scale settling time.

Ultra-compact at just a 1/2" wide, the HI 1734-WS module saves cabinet space over the use of dedicated instrumentation, reducing both machine cost and control cabinet footprint.

Fast to install and commission by snapping modules into terminal blocks onto a POINT I/O Network Adaptor, then using EDS AOP files to set-up and configure in RSLogix or Studio5000. Rockwell's Adaptor Products allow connectivity to EtherNet/IP, DeviceNet, and ControlNet in linear, star and ring topologies.

SOLID PERFORMANCE

Even in noisy environments with excessive amounts of mechanical vibration, Hardy's WAVERSAVER allows the HI 1734-WS to deliver a steady 1:10,000 resolution in processed weight data at 55 updates per second.

SIMPLE SET-UP & CALIBRATION

Use load sensors with Hardy's exclusive C2® Calibration for automatic system calibration to save hours in commissioning and routine maintenance. By reading the calibration with certificate embedded electronically in the C2 sensor, the weigh system can be calibrated the touch of a button, avoiding a time consuming traditional calibration procedure.

MAINTENANCE & DIAGNOSTICS

For quick and easy troubleshooting, the HI 1734-WS features a removable terminal block, so modules can be removed and inserted under power (hot-swap) with no need for tools or rewiring.

Comprehensive diagnostics include 3 LEDs per module that indicate power, network, and weigh function status. With INTEGRATED TECHNICIAN®, the module maintains and troubleshoots the weighing system by diagnosing individual sensors without the need to disconnect.

PREMIER INTEGRATION

With an Add-on-Profile, Add-on-Instructions and Faceplates included, install, configure, calibrate, operate and visualize without writing a single line of code.

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 Bench Scales

Weighing Instruments Dedicated to Your Applications

Controllers, Weigh Modules, Transmitters

Allen-Bradley® Compatible Plug-in Weigh Scale Modules



HI 3000 & HI 4000 Controllers and HI 6000 Series



SPECIFICATIONS

Performance:

Resolution

- Stable processed weight 1:10,000
- Internal resolution 1:8,388,608

Update Rate

- Processed weight, display, comms: 55 times per second
- Unprocessed weight (A/D conversion): 4800 times psec

Modes:

- Gross, Net

Units of Measure:

- Ounce, Pound, Ton, Gram, Kg, Metric Ton

Weight Processing

- WAVEDSAVER®: 1.0 Hz to 7.5 Hz
- Averaging: 1 to 255 User-selectable in single increments

Calibration Methods:

- C2® calibration without test weights
- Traditional calibration with test weights

Output:

- Excitation 5VDC

Inputs:

- Signal, -0.3 mV to +15 mV
- Sense, +5 Vdc
- C2®, Electronic Calibration

Number of Load Cells:

- Up to 8 350 Ω per weight processing module

Mounting:

Compatible with the following Terminal Bases*

- 1734-TOP3 (12-terminal screw-clamp, one piece)
- 1734-TOP3S (12-terminal spring-clamp, one piece)
- 1734-TB3 (12-terminal screw-clamp, assembly)
- 1734-TB3S (12-terminal spring-clamp, assembly)

*See Allen-Bradley POINT I/O Module Bulletin for proper installation instructions

Environment:

- IP-30 rated

Housing

- High Strength ABS-Polycarbonate Blend

Power:

- Provided by 1734 backplane: 5 VDC, 100 mA
- 24 VDC, 100 mA

Temperature:

- -20°C to +55°C (-4° F to 131°F)
- Max operating ambient 55°C 131°F)

Humidity:

- 0-90% non-condensing

Dimensions:

- 4.57"(11.6cm)D x 4.76"(12.1cm)H x 0.5"(3.2cm)W

Humidity:

- 0-90% non-condensing

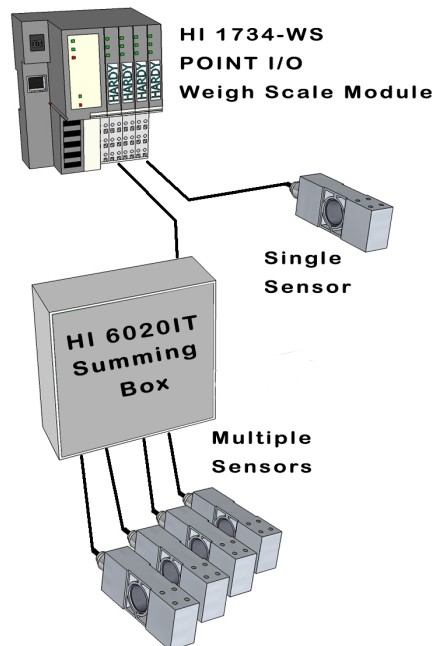
Certifications

- Programmable Controller For Use in Hazardous Locations Class I, Division 2 Groups A, B, C and D, Temp Code T6
- UL, CUL & CE
- RoHS2 and REACH Compliant

Warranty:

- Two-year warranty against defects in workmanship

System Configuration



HARDY
PROCESS SOLUTIONS
Measurement • Automation • Productivity

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