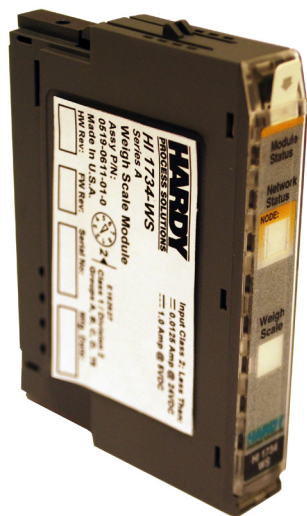


# HI 1734-WS POINT I/O Series Weight Processing Module

## PROCESS WEIGHING

### Applications

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



SILVER  
 Technology Partner

A ROCKWELL AUTOMATION PARTNER

## 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**

**WAVERSAVER®**

**Easy to configure and setup with a Rockwell Automation PLC**

**Rockwell EDS\_Add-on-Profile**

*The Hardy HI 1734-WS module is ideal for POINT I/O applications where fast, 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 ½" 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, communications: 55 times per second
- Unprocessed weight (A/D conv.): 4800 times per sec

### Modes:

- Gross, Net

### Units of Measure:

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

### Weight Processing

- WAVESSAVER®: 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  $\Omega$  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, 1000 mA
- 24 VDC, 100 mA

### Temperature:

- -20°C to +55°C (-4° F to 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

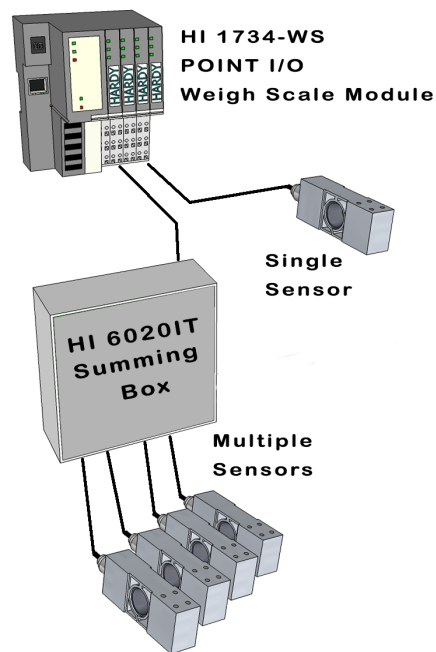
### Certifications:

- Safety: UL & CUL, CE
- RoHS3 and REACH Compliant
- Hazardous: Class I, II, III/Div2

### Warranty:

- Two-year warranty against defects in workmanship

## System Configuration



**HARDY**  
**PROCESS SOLUTIONS**  
Measurement • Automation • Productivity

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HI 1734-WS Series 0522  
0400-1734E