

Applications

PROCESS WEIGHING

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



Features

WAVERSAVER®

- Ignores vibration on and around scales

C2® Electronic Calibration

- Electronic calibration without test weights



SMM-SD (Secure Memory Module with SD RAM)

- Expandable automatic backup of configuration data for easy transfer to other instruments or your PC

High in features and attractive in price, our HI 2110WI high-accuracy Digital Weight Indicator provides local indication, and acts as a front end to a PLC or DCS system. Weight data can be transmitted via any one of its communication options, including Allen-Bradley® Remote I/O, Profibus®, Analog and BCD.

Hardy's HI 2110WI conditions and digitizes the weight signal twenty times per second with over one million counts of resolution over a differential signal range of 0 to 15mv. It can then transmit a clean signal representing gross or net weight data to a PLC, PC or DCS system. This high resolution allows the weight indicator to tolerate large dead loads and over-sizing of the load sensors, while retaining a high level of usable signal. The HI 2110WI supplies 5 volts of DC excitation to drive four 350-ohm load sensors, or load cells associated with a single scale. The indicator is available in panel mount or remote mount configuration.

EASY SYSTEM INTEGRATION

We provide a variety of interface capabilities, including Allen-Bradley RIO, Profibus, Analog and BCD to connect to your PLC, PC or DCS system.

C2® ELECTRONIC CALIBRATION

C2 enables electronic calibration of the weigh system without test weights. This saves system start-up costs and aggravation. Of course, even if C2 certified load sensors are not used, the system can still be calibrated the slow, traditional way using certified test weights.

WAVERSAVER®

WAVERSAVER eliminates the effects of unwanted plant vibration on or around the scale by permitting the weigh module to "see" through the unwanted vibration signals - as low as 0.25Hz - while yielding a stable actual reading.

SECURE MEMORY MODULE

The rear panel accessible Secure Memory Module (SMM) automatically protects and stores critical data. It allows this data to be physically transferred from one indicator to another. If a problem occurs, simply remove the current SMM and plug it into a new indicator, and your system will be up in running in minutes.

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



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 215 Series)

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



HARDY
PROCESS SOLUTIONS
Measurement • Automation • Productivity

SPECIFICATIONS

Alpha-Numeric Display

- 6 digit, 14-segment red LED

Update Rate

- 20 times per second

Averaging

- Sliding up to 200 readings in single unit increments

Resolution

- Display: 1:985,000 (3mV/V load cells)
- Internal: 1:1,048,000

Accuracy

- 0.0015% non-linearity

Common Mode Rejection

- 100dB at 50-60Hz

Standard Networking Choices

- Remote I/O (-RIO)
- Profibus (-PB)
- Analog; current and voltage (-AN)
- BCD; includes 60" cable (-BCD)

Stable Weight Reading

- WAVEDSAVER® 0.25Hz minimum

Calibration Techniques

- C2® Second Generation electronic calibration
- Traditional calibration with test weights

Data Security

- Secure Memory Module

Excitation

- 5VDC internal power supply drives up to four 350-ohm load cells

Power

- 120/240VAC \pm 10%, 47/63Hz
- 10 watts with options installed
- (-240) configured for 240VAC

Operating Temperature

- -10° to +50°C (14° to 122°F)

Humidity

- 0-90% non-condensing

Inputs

- 4 remote functions (optional mating connector)

Approvals

- CE
- UL pending

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.

To learn more about the HI 2110WI visit our web site for:

- full product specifications
- ordering information
- application notes
- technical description
- operator's manual

www.hardysolutions.com

or call us: 800-821-5831
+ 1-858-278-2900

Enclosures

PANEL MOUNT

- Display rating: NEMA 4X*
- Depth: 10" (254 mm)
- Panel cutout: 3.09" x 5.75" (78.4 x 146 mm)
- Weight: 4.6 lbs (2.1 kg)

REMOTE MOUNT

- Display rating: NEMA 4X*
- Dimensions: 3.23" H x 5.74" W x 10.40" D (82.04 H x 145.8 W x 264.2 D mm)
- Panel cutout: 3.09" x 5.75" (78.4 x 146 mm)
- Weight: 4.6 lbs. (2.1 kg)
- Display mounts separately from the instrument body via a 5-foot cable

MODELS AND OPTIONS

HI 2110WI:	Panel Mount Indicator
HI 2110WI-RM:	Remote Mount Indicator. Its display can mount up to 5 feet from the instrument body.
HI 2110WI-RIO (-RM-RIO)	Weight Indicator with bidirectional Remote I/O interface to Allen-Bradley PLCs & SLCs
HI 2110WI-PB (-RM-PB)	Weight Indicator with bi-directional interface to Profibus compatible products including SIEMENS, GE FANUC, and OMRON
HI 2110WI-AN (-RM-AN)	Weight Indicator with Analog Output Resolution: 16,000 counts Current: 0-20 or 4 - 20 milliamps Voltage: 0 -5 or 0 - 10 VDC
HI 2110WI-BCD (-RM-BCD)	Weight Indicator with 6 digits of parallel data representing Net, Gross, Tare or display with tri-state capability. Includes 60" cable.

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