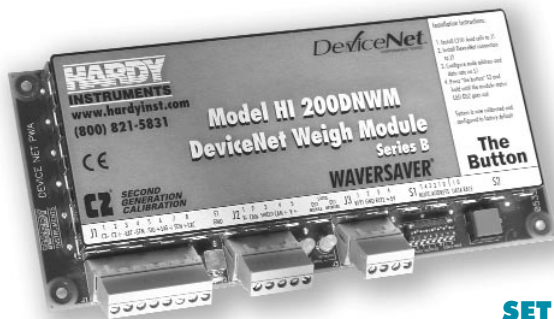


DeviceNet Weigh Module



The HI 200DNWM is the first general purpose weigh module designed specifically to the DeviceNet Open Network Standard. Its many features, including "calibration with the push of a button", set the norm for all future DeviceNet weighing products.

The HI 200DNWM Series B now allows easier programming and increased flexibility through features such as:

- A "Command Interface" for easy access to all parameters without the use of explicit messages
- A choice of outputs with selectable decimal point location
- A selectable update rate of 10 or 55 samples per second

The HI 200DNWM supports up to eight C2® certified load sensors and provides power to scales with up to four 350-ohm standard strain gauge load cells, load sensors or load points. It receives and digitizes the weight signal with over one million bits of resolution, and transmits the selectable Gross, Net and Tare weight data over the DeviceNet Open Network interface to other devices. Data is transmitted at three switch selectable baud rates of 125, 250 or 500 kilobytes per second. The DNWM acts as a slave on the network and supports a polling I/O exchange mechanism. Two on-board bi-color LEDs provide module and system status for troubleshooting.

CONFORMANCE TESTED

Hardy Instruments is an ISO 9001 certified company with stringent in-house product testing procedures. In addition to passing these in-house tests, the

HI 200DNWM was tested by the Open Device Network Association's (ODVA) Authorized Independent Test Lab, and in June 1998 was found to comply with ODVA Conformance DeviceNet Test Software Version A-10.

DeviceNet
CONFORMANCE TESTED

SET POINTS

Two independent TTL level outputs provide set point capability each with separate deadbands and preacts for control capabilities in a variety of weighing applications.

ADDITIONAL FEATURES

This module comes with a disk containing the Electronic Data Sheet (EDS) and a user's manual. This product is available for dual stacking in an instrument cabinet, on standoffs, or on din rail. It is also available with a summing card packaged in a painted steel NEMA 4 or Stainless steel Nema 4x junction box.

THE BUTTON

With one push of a button the HI 200DNWM automatically calibrates the weighing system, making it ready for use. This saves system start-up time costs and aggravations. Of course if time is available or C2® certified load sensors are not used, the system can still be calibrated the traditional way utilizing multiple personnel and heavy test weights.

C2® ELECTRONIC CALIBRATION

Calibration can be performed in traditional ways (hard cal), or by using our exclusive C2®, Second Generation Calibration over the DeviceNet network. C2® enables electronic calibration of the weigh system without test weights.

WAVERSAVER®

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

Model HI 200DNWM Series B

Applications

Process Weighing:

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



Features

• Conformance Tested

• WAVERSAVER®: Ignores Vibration On and Around Scales

• C2®, Second Generation Calibration: Calibrates Electronically



• THE BUTTON®: Electronic Calibration at the Touch of a Button

• Two Set Points: TTL Level

HARDY
INSTRUMENTS

COMPONENTS TO COMPLETE YOUR HARDY INSTRUMENTS SYSTEM

• Hardy Weigh Scale Module HI 200DNWM



• 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.



Load Point
Model HI LPRA



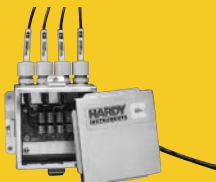
ANY-WEIGH™
Bench Scales with optional
DeviceNet communications

• 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 215JB Series)

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



HARDY INSTRUMENTS

ORDERING INFORMATION

• HI 200DNWM

DeviceNet Weigh Module standoff mounting. Includes THE BUTTON®, C2®, WAVESSAVER®, instruction manual & EDS on 3 1/2" floppy disk.

• OPTIONS

- DR Din rail mounting kit
- SK Module stacking kit includes hardware for stacking a second HI 200DNWM

• HI 200DNWM-SK1

Two complete weigh modules pre-stacked for standoff mounting. Includes THE BUTTON®, C2®, WAVESSAVER®, instruction manual & EDS on 3 1/2" floppy disk.

- DR Din rail mounting kit

• HI 200DNWM-SS

DeviceNet Weigh Module with Summing Card in a stainless steel Nema 4x enclosure with conduit hubs. Includes THE BUTTON®, C2®, WAVESSAVER®, instruction manual & EDS on 3 1/2" floppy disk.

• HI 200DNWM-PS

DeviceNet Weigh Module with Summing Card in a painted steel Nema 4 enclosure with conduit hubs. Includes THE BUTTON®, C2®, WAVESSAVER®, instruction manual & EDS on 3 1/2" floppy disk.

SPECIFICATIONS

- **Resolution:** Twenty bit
- **Update Rate:** 10 or 55 per second*
- **Non-Linearity:** 0.0015%
- **Averages:** 0 -255 selectable
- **Temperature Coefficient:** Less than 0.0005% per degree C for zero & span
- **Storage Temperature Range:** -20° to +80° C
- **Input power:** from DeviceNet Cable
24 VDC +/- 1% Network
11-25 VDC Node
- **Excitation:** 5 VDC internal drives four 350-Ohm cells

DEVICENET

- **Type:** Generic
- **I/O Slave Messaging:** Polling
- **Profile:** Refer to EDS
- **Baud Rates:** 125K, 250K, and 500K

OUTPUTS

Gross, Net, Tare weights

INPUTS

Weight: Metric or English
Zero and Tare
WAVESSAVER
Calibration type
Span Weight (Hard Cal)
Cal Low value
Cal High value
Number of C2 Sensors (C2 cal)
Number of averages
Set point on and/or two
Mode, value, deadband and preacts

DIMENSIONS

HI 200DNWM: 3.8"W x 8.5"L x 1"T
HI 200DNWM-DR: 3.94"W x 8.6"L x 2"T
HI 200DNWM-SK1: 3.8"W x 8.5"L x 2.38"T
HI 200DNWM-SK1-DR: 3.94"W x 8.6"L x 3.31"T
HI200DNWM-SS: 10"W x 8"L x 4"T
HI200DNWM-PS: 10"W x 8"L x 4"T

*WAVESSAVER®

Setting	Frequency	Update Rate
0	Off	55/sec
1	4Hz	55/sec
2	2Hz	10/sec
3	1Hz	10/sec
4	0.5Hz	10/sec

To learn more about
the HI 200DNWM,
visit our web site to find:

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

www.hardyinst.com

or call us at

800-821-5831

858-278-2900

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ISO 9001
CERTIFIED
Since 1993

HI 200DNWM-C