HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity
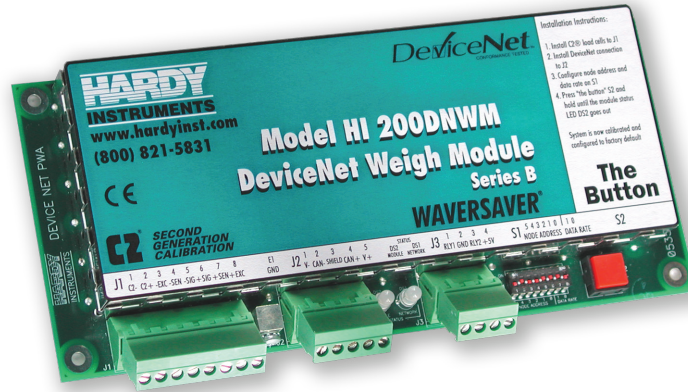
Model HI 200DNWM
DeviceNet Weigh Module
Series B

Applications
PROCESS WEIGHING
- *Batching/Blending*
- *Filling/Dispensing*
- *Level-by-Weight*
- *Check Weighing*
- *Force Measurement*

Features
WAVERSAVER®
- *Ignores vibration on and around scales*

C2® Electronic Calibration
- *Electronic calibration without test weights*

THE BUTTON
- *One step calibration with C2 load cells*

TWO SET POINTS
- *TTL Level*

CONFORMANCE TESTED

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

FEATURES
- 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.

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.

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.

THE BUTTON®
With one push of a button the weigh scale module automatically calibrates the weighing system, making it ready for use. This saves system start-up time costs and aggravations.
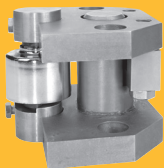
ADDITIONAL FEATURES
This module comes with a disk containing the Electronic Data Sheet (EDS) and a user's manual. This product is available for dual stacking in an instrument cabinet, on standoffs, or on din rail, It is also available with a summing card packaged in a painted steel NEMA 4 or Stainless steel NEMA 4x junction box.

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.

SPECIFICATIONS

Input Power
- Provided from DeviceNet cable
- 24 VDC $\pm$1% network
- 11-25 VDC Node

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

Inputs
- Weight: Metric or English
- Zero and Tare
- WAVERSAVER®
- 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

Outputs
- Gross, Net, Tare weights

Resolution
- 20-bit

Update Rate
- 10 or 55 per second*

Non-Linearity
- 0..0015%

Averages
- 0-255 selectable

Temperature Coefficient
- < 0.0005% per degree C for zero and span

Excitation
- 5 VDC internal drives four 350-ohm

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
- HI 200DNWM-SS: 10" W x 8" L x 4" T
- HI 200DNWM-PS: 10" W x 8" L x 4" T

Approvals
- CE

Warranty
- Two-year warranty against defects in workmanship

*WAVERSAVER

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

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

ORDERING INFORMATION

• Options Ordering
Options can be ordered at the same time the module is ordered by adding the dash designators to the end of the module number.

For example:

HI 200DNWM	DeviceNet Weigh Module standoff mounting. Includes THE BUTTON®, C2®, WAVERSAVER®, instruction manual & EDS on 3½" floppy disk.
HI 200DNWM-DR	with Din rail mounting kit
HI 200DNWM-SK	with 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, WAVERSAVER, instruction manual & EDS on 3½" floppy disk.
HI 200DNWM-SK1-DR	with 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, WAVERSAVER, instruction manual & EDS on 3½" 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, WAVERSAVER, instruction manual & EDS on 3 ½" floppy disk.

DeviceNet CONFORMANCE TESTED

To learn more about the HI 200DNWM visit our website for:

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

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CERTIFIED
Since 1993

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HARDY
PROCESS SOLUTIONS
Measurement ▪ Automation ▪ Productivity

HI 200DNWM 0511
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