

ANY-WEIGH® Bench Scales

Applications

PROCESS WEIGHING

- Check Weighing
- Hand Ads
- Filling
- Laboratory
- Force



Features

C2® Electronic Calibration

- Electronic calibration without test weights



ANY-WEIGH® Standard Features

- Stainless Steel
- Solid Construction
- Low Profile

Universal

- C2 Electronic Calibration

Analog (Special Order Only)

- Built-in 4-20mA Communications
- Pre-Calibrated

DeviceNet (Special Order Only)

- Built-in DeviceNet Communications
- Pre-Calibrated
- WAVERSAVER®
- C2 Electronic Calibration

The ANY-WEIGH® Bench scales provide complete flexibility in size and capacity for use in a wide range of weighing applications. With their rugged construction and stainless steel tops, ANY-WEIGH Scales are a great fit for both laboratory and industrial installations.

The ANY-WEIGH line of bench scales can be configured with standard interfacing to a weight instrument or with a built-in, direct connection to a PLC, PAC, DCS or PC.

C2® ELECTRONIC CALIBRATION

With a push of a button in a Hardy Controller, C2 enables a fast, accurate, electronic calibration without test weights. The C2 system reduces downtime for installation or repairs and eliminates test weight related injuries.

UNIVERSAL SCALE (HI SBU Series)

Directly attach the scale's 15-foot cable to any weighing instrument or controller. If interfacing with a Hardy Controller, you can take full advantage of WAVERSAVER®, and C2 Electronic Calibration.

ANALOG SCALE (HI SBA Series)

SPECIAL ORDER ONLY: Use the Analog output scale to provide 4-20mA output directly proportional to the weight reading. This version offers a low-cost, effective solution for bringing an analog weight reading directly into a

control system, with minimal additional wiring or hardware, and comes with a 15-foot two-wire shielded cable. The scale comes pre-calibrated from the factory but provides potentiometers for coarse and fine zero adjustment as well as span.

DEVICENET SCALE (HISBD Series)

SPECIAL ORDER ONLY: With its built-in DeviceNet interface you can use this scale to provide a weight output to any point on a DeviceNet Network. This version also incorporates both the WAVERSAVER and C2 technologies, and comes with a six-inch pig-tailed connector.

Just set an address, connect to your network, configure and you're up and running. The scale features outputs for Gross, Net and Tare weight values and inputs for Zero and Tare commands. A Command interface provides easy access to all parameters without the need for explicit messages.

Need to recalibrate? One push of "THE BUTTON" automatically recalibrates the scale. The scale also supports C2 electronic calibration over its DeviceNet interface. WAVERSAVER eliminates the effects of vibration on the scale resulting in a clean accurate weight signal being transmitted over DeviceNet. The scale provides 20-bit resolution with a selectable conversion rate choice of 10 or 55 updates per second.

Use ANY-WEIGH Bench Scales for:

- Filling & Dispensing
- IBC Dispensing
- Batching/Blending
- Check Weighing
- Flow Rate Monitoring
- Flow Rate Control
- Force Measurement
- Level Measurement/Control

Weighing Instruments Dedicated to Your Applications

Controllers, Weight Modules, Transmitters

Allen-Bradley® Compatible
Plug-in Weigh Scale Modules



HI 3000 & HI 4000
Controllers and
HI 6000 Series Weight
Processors

Hardy Load Cells

Hardy carries a wide variety of Load Cells to accommodate your application requirements.



ADVANTAGE Series
with C2 Calibration



SPECIFICATIONS

Universal Scale (SBU)

Rated Output

- $0.900 \pm 0.0009 \text{ mV/V}$

Combined Error

- $0.030 \% \text{ R.O.}$

Creep @ 30 min

- $0.030 \% \text{ R.O.}$

Zero Balance

- $5.0 \% \text{ R.O.}$

Temp Effect Output

- $0.0015 \% \text{ R.O./}^\circ\text{F}$

Temp Effect Sensitivity

- $0.0008 \% \text{ R.O./}^\circ\text{F}$

Comp. Temp. Range

- $-10 - +40^\circ\text{C}$

Oper. Temp. Range

- $-10 - +65^\circ\text{C}$

Input Resistance

- $297.5 \pm 10 \% \text{ ohm}$

Output Resistance

- $250 \pm 5 \% \text{ ohm}$

Excitation

- 5-15 Volts

Safe Load Limit

- $300 \% \text{ Emax}$
- Ultimate Load $400 \% \text{ Emax}$

Max. Cornering Error

- $0.06 \% \text{ } 1/2 \text{ full scale load, } 1/2 \text{ way to corner}$

Warranty

- Two year warranty against defects in workmanship

DeviceNet Out (SBD)

Special Order Only

Resolution

- 20 bit

Update Rate

- 10 or 55 per second depending on WSAVER settings

Averages

- 0-255 selectable

Temp Coefficient

- $< 0.0023 \% / ^\circ\text{C}$

Input Power

- 11-25VDC

Type

- Generic

I/O Slave Message

- Polling

Baud Rates

- 125K, 250K, 500K

Inputs

- Gross, Net, Tare

Outputs

- Weight: Metric/Engl., Zero & Tare
- WSAVER
- Calib. Type
- Span Weight (Hard Cal)
- Cal Low Value
- Cal High Value
- # of Averages

Warranty

- Two year warranty against defects in workmanship

Analog Out (SBA)

Special Order Only

Loop Power

- 15-50VDC across scale.
- A 15V min. would be with 0 ohm load; add 20 mV/ohm to the min. loop voltage.
- A 500 ohm load would require 25V min. loop voltage.

Linearity

- 0.11% of full scale

Response Time

- 250 milliseconds

Temp. Range

- $0 \text{ to } 60^\circ\text{C}$

Temp. Coefficient

- $0.025 \% / ^\circ\text{C}$

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.

ORDERING INFORMATION

| MODEL # | SIZE | CAPACITY | HEIGHT | WEIGHT |
|-----------------|-----------------------|----------|-----------|---------|
| | in/mm | lb/kg | in/mm | lb/kg |
| HI 1212SB_-33 | 12" x 12" / 298 x 298 | 33/15 | 1.54/39.1 | 14/6.4 |
| HI 1212SB_-66 | 12" x 12" / 298 x 298 | 66/30 | 1.56/39.6 | 14/6.4 |
| HI 1212SB_-130 | 12" x 12" / 298 x 298 | 130/60 | 1.62/41.2 | 14/6.4 |
| HI 2424SB_-130 | 24" x 24" / 600 x 600 | 130/60 | 1.62/41.2 | 52/23.6 |
| HI 2424SB_-330 | 24" x 24" / 600 x 600 | 330/150 | 1.65/41.9 | 52/23.6 |
| HI 2424SB_-660 | 24" x 24" / 600 x 600 | 660/300 | 1.87/47.5 | 52/23.6 |
| HI 2424SB_-1.3K | 24" x 24" / 600 x 600 | 1300/590 | 2.05/52.1 | 52/23.6 |

SBU: Universal SBD: DeviceNet (Special Order) SBA: Analog (Special Order)

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CERTIFIED
ISO 9001



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AW BS 0125
0400-0014-01E