

Applications

PROCESS WEIGHING

- *Batching/Blending*
- *Filling/Dispensing*
- *Level-by-Weight*
- *Inventory Management*



Features

The Hardy Process Toolbox

The Hardy Process Toolbox is a set of productivity tools that support process weighing functions. Each tool saves time, increases accuracy, improves efficiency or reduces risk in process weighing applications.



C2[®] Electronic Calibration

- Electronic calibration without test weights

INTEGRATED TECHNICIAN[®]

- Complete weighing system monitoring and troubleshooting

NEMA 4X Enclosure

- Water and corrosion resistant

Hazardous Locations

- Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; Class III

IT or JB SUMMING BOX

The Hardy HI 6020 Summing box is a critical component in a weighing system that enables use of Hardy's core technologies - C2[®] electronic calibration and Integrated Technician[®] (IT).

Each summing box distributes excitation voltage to up to four load cells and transfers each load cell's performance characteristics and weight signals to the Hardy weighing instrument. A summing card with IT allows a weighing instrument operator to switch to the summing card's internal test circuit and diagnose the entire weighing system from the front panel of the instrument or a remote location over the Internet. Individual load cells can be isolated from each other for weight and voltage readings, allowing a technician or operator to quickly and safely troubleshoot weighing system faults and anomalies.

The HI 6020 Summing box is available with a variety of options, including IT, trim pots (for non-Hardy load cells) and a NEMA 4X enclosure in stainless steel, painted steel or fiberglass. The enclosure features a thick-wall design with an interior seal for a long lasting, robust wash-down installation. Each box comes with two packaged hole plugs and five cable grip fittings suitable for load cell cables with an outside diameter of 1/4 to 3/8 inches. A label is provided on the underside of the top cover to record load cell serial numbers and location.

A single HI 6020 Summing box supports up to 4 load cells. To connect two HI 6020 Summing Boxes together to support between 5 and 8 load cells, use the TB6 Auxiliary connection between boxes which is currently available in Legacy Format.

SPECIFICATIONS

Max number of Load Cells

- 8 (with two junction boxes)

Enclosure

- Choice of Stainless Steel, Painted Steel or Fiberglass

PCB Dimensions

- 4.88" (12.38 cm) x 4.88" (12.38 cm)

Connector Type

- Removeable Terminal Blocks 7 pin, 1 row, 4 mm pitch
- 55 degree wire entry

Auxiliary Port for Connecting Junction Boxes

- TB6

Temp Range

- -10 to +60°C (14 to 140°F)

Max Current

Maximum current consumption with Integrated Technician:

- 58mA with 4 x 350 ohm load cells
- 116mA with 8 x 350 ohm load cells
- 19mA with 4 x 1100 ohm load cells
- 38mA with 8 x 1100 ohm load cells

Maximum current consumption with Trimming Pots:

- 58mA with 4 x 350 ohm load cells
- 116mA with 8 x 350 ohm load cells
- 19mA with 4 x 1100 ohm load cells
- 38mA with 8 x 1100 ohm load cells

Trim Pot Num Turns

- 11 (for use with non-C2 systems)

Trim Pot Impedance Range

- 0-10 Ω

Power Rating

- HI 6020IT: 5 VDC, Class 2, max. 50 mA
- HI 6020JB: 2-15 VDC, Class 2, max. 275 mA

Warranty

- Two-year warranty against defects in workmanship

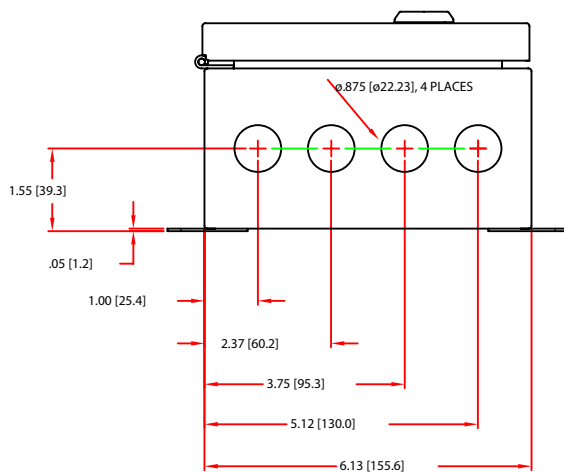
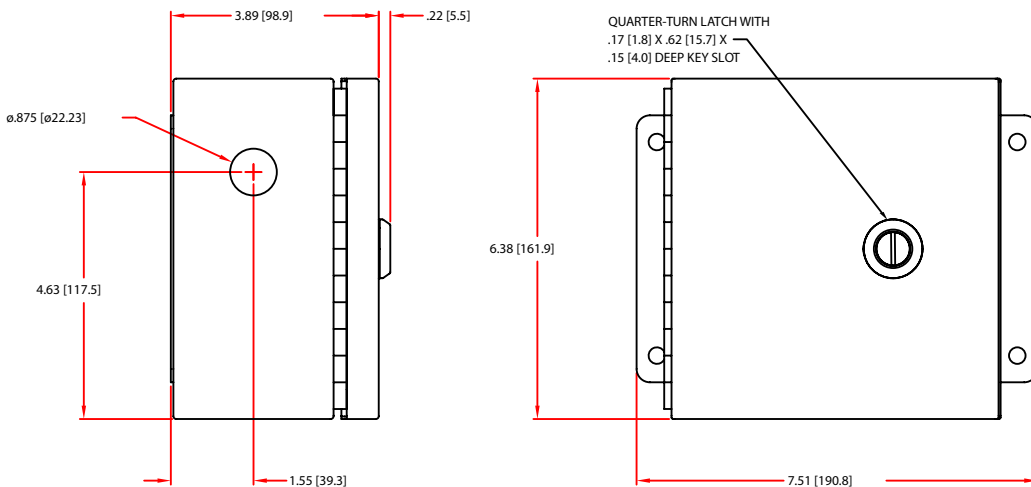
Current Stainless Steel Summing Box (IT Version Shown)

The Hardy HI 6020 Summing box now includes a locking mechanism on the front that creates a tight seal when fastened. This interior seal is NEMA 4.X compliant and provides a robust wash-down installation.

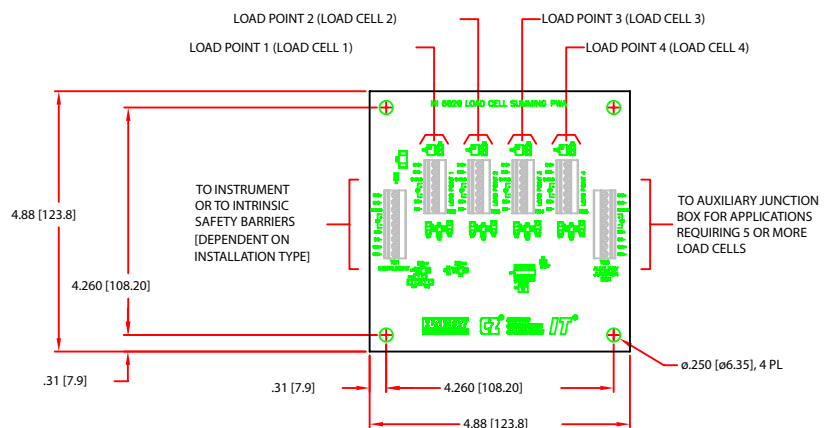
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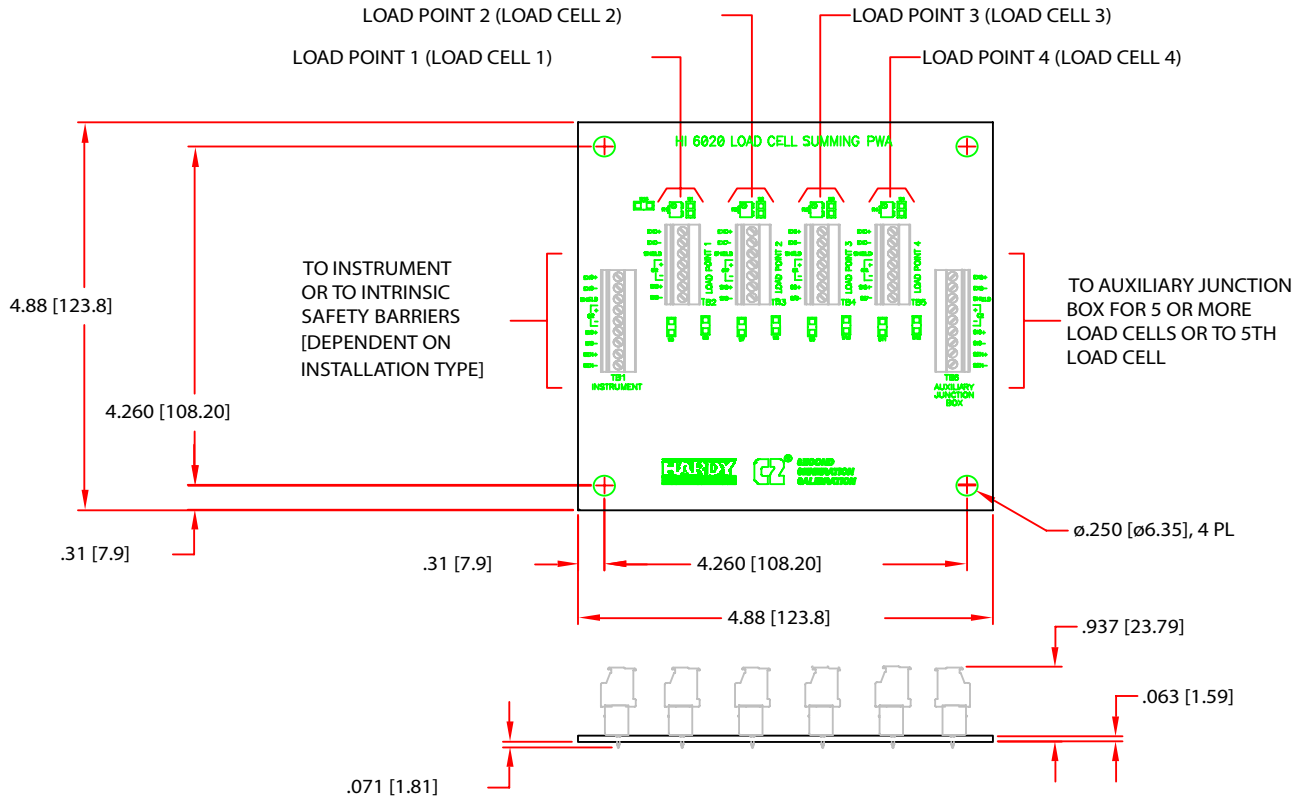
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HI 6020IT SERIES LOAD CELL SUMMING CARD



JUNCTION BOX FIELD WIRING TERMINAL BLOCKS



HI 6020JB SERIES LOAD CELL SUMMING CARD
DIMENSIONS IN INCHES [MM]

HI 6020 JUNCTION BOXES AND SUMMING CARD MODELS

MODEL #	DESCRIPTION
HI6020IT-PS1	Integrated Technician NEMA 4/IP66 Painted Steel
HI6020IT-FG1	Integrated Technician NEMA 4X/IP66 Fiberglass
HI6020IT-SS1	Integrated Technician NEMA 4X/IP66 Stainless Steel
HI6020IT-SC1	Integrated Technician Summing Card, no Enclosure
HI6020IT-PS2	Integrated Technician NEMA 4/IP66 Painted Steel with Trim Pots*
HI6020IT-FG2	Integrated Technician NEMA 4X/IP66 Fiberglass with Trim Pots*
HI6020IT-SS2	Integrated Technician NEMA 4X/IP66 Stainless Steel with Trim Pots*
HI6020IT-SCT	Integrated Technician Summing Card with Trim Pots*, no Enclosure
HI6020JB-PS1	NEMA 4/IP 66 Painted Steel
HI6020JB-FG1	NEMA 4X/IP 66 Fiberglass
HI6020JB-SS1	NEMA 4X/IP 66 Stainless Steel
HI6020JB-SC1	Summing Card, no Enclosure
HI6020JB-PS2	NEMA 4/IP 66 Painted Steel with Trim Pots*
HI6020JB-FG2	NEMA 4X Fiberglass with Trim Pots*
HI6020JB-SS2	NEMA 4X/IP 66 Stainless Steel with Trim Pots*
HI6020JB-SCT	Summing Card with Trim Pots*, no Enclosure

*Trim Pots are NOT compatible with Hardy C2® Load Cells

All specifications subject to change without notice. Please contact the Hardy factory or visit our website for the latest specifications. WAVERSAVER, C2, IT, and ADVANTAGE are registered trademarks of Hardy Process Solutions. All other trademarks or registered trademarks are the property of their respective owners.



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