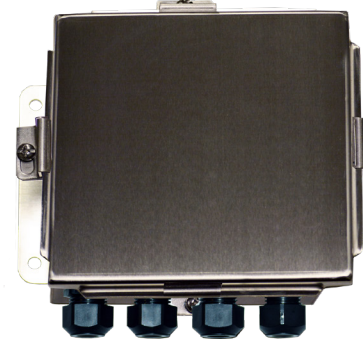


**Summing Box  
 Legacy**

**Current**



**Note: 6-Hole stainless steel versions will use Legacy Format until Approximately 4/2024.**

**Legacy Format can still be ordered via special order. Call for details.**

**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

**Warranty**

- Two Years

**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

**Hazardous Area Certifications**

- HI6020IT-SSX-Y and HI6020JB-SSX-Y: USL/CNL Class I, II, III, Div 1 Groups ABCDEFG intrinsically safe per drawing 0594-0007 and 0594-0008
- HI6020JB-SSX-Y-EX and HI6020IT-SSX-Y-EX models: ATEX & IECEx Ex ia IIC T4 intrinsically safe per drawing 0594-0011 and 0594-0012 ATEX Certificate No. DEMKO 17 ATEX 1819; IECEx Certificate No. IECEx UL 17.0009
- HI6020IT and HI6020JB: USL/CNL Class I, II, III, Div 2, Groups ABCDFG (except -EX versions)

**PCB Dimensions**

- 4.88" (12.38 cm) x 4.88" (12.38 cm)
- Removeable Terminal Blocks 7 pin, 1 row, 3.5 mm pitch

**Auxiliary Port for Connecting Junction Boxes**

- TB6

**Predrilled Hole Size**

- 0.875 inches (22.2 mm)

**Temp Range**

- -10 to +60°C (14 to 140°F)

**Max 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

Continued on Next Page

## Current Stainless Steel Summing Box (IT Version)

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.

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. 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.

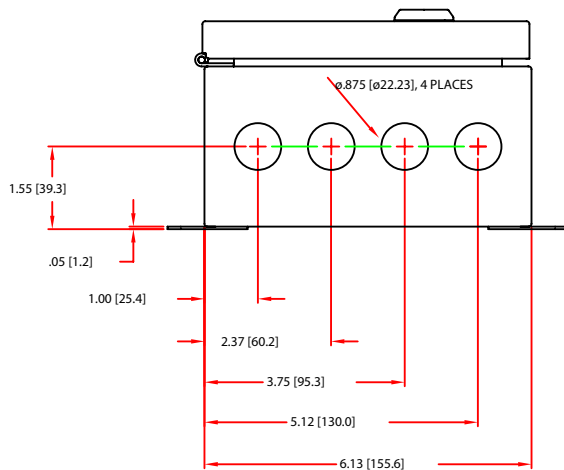
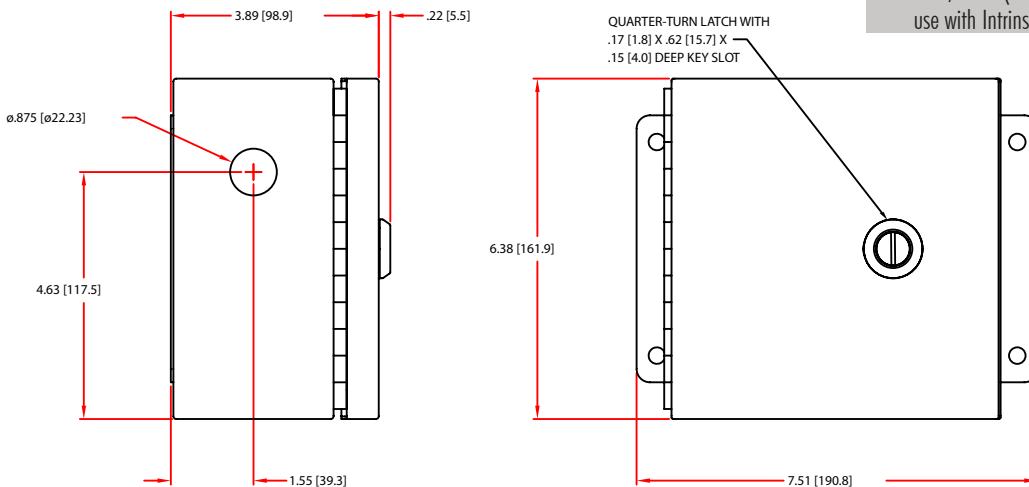
A single HI 6020 Summing box supports up to 4 load cells. To connect two HI 6020 Summing Boxes together to support between 5 and 8 load cells, use the TB6 Auxiliary connection between boxes.

### Power Ratings

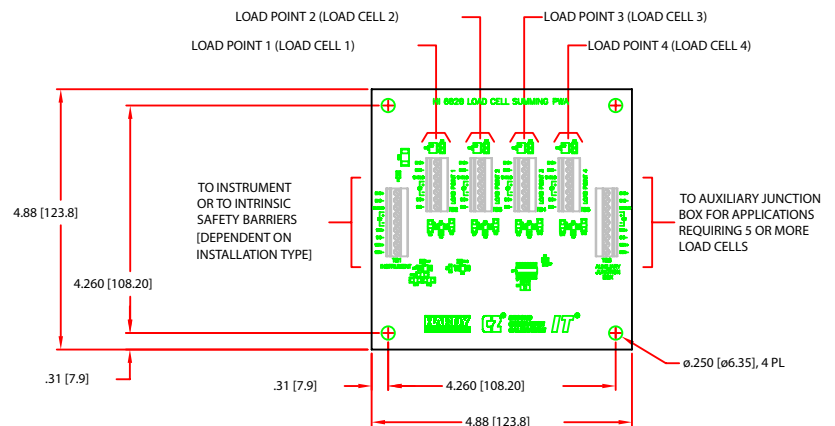
- HI 6020IT: 5 VDC, Class 2, max. 50 mA
- HI 6020JB (Summing card, fiberglass and painted steel): 2-15 VDC, Class 2, max. 275 mA
- HI6020JB Stainless Steel for Hazardous Areas: 5 VDC, Class 2, max. 50 mA
- HI6020IT & HI6020JB Class I, Div 1 versions: Power must be supplied through approved intrinsically safe barriers per control drawing 0594-0007 (HI 6020JB) or 0594-0008 (HI6020IT)
- HI6020IT & HI6020JB ATEX and IECEx versions: Power must be supplied through approved intrinsically safe barriers per control drawing 0594-0011 (HI6020JB) or 0594-0012 (HI6020IT)

### Holes/Glands

- 5 holes (standard)
- 6 holes (for TB6 connections)
- Non ATEX/IECEx versions: Each box comes packaged with six hole plugs and cable grip fittings for load cell cables with an outside diameter of .169 to 0.449 in (4.3 to 11.4 mm)
- ATEX/IECEx (-EX versions): Does not include glands or hole plugs. For use with Intrinsic Barriers Only



### HI 6020IT SERIES LOAD CELL SUMMING CARD



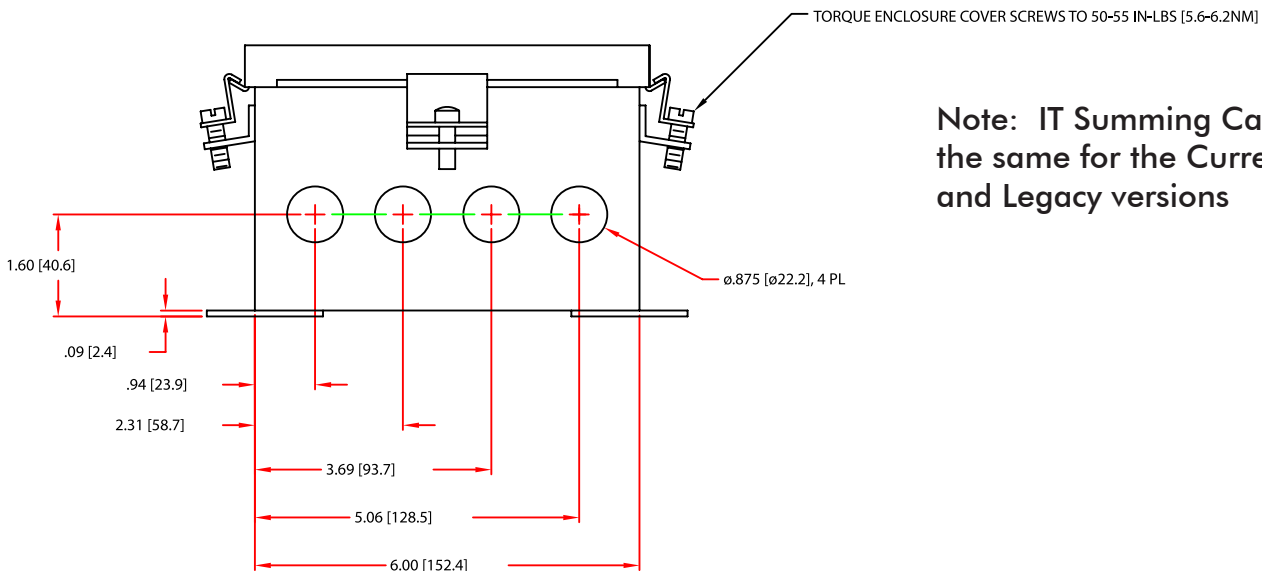
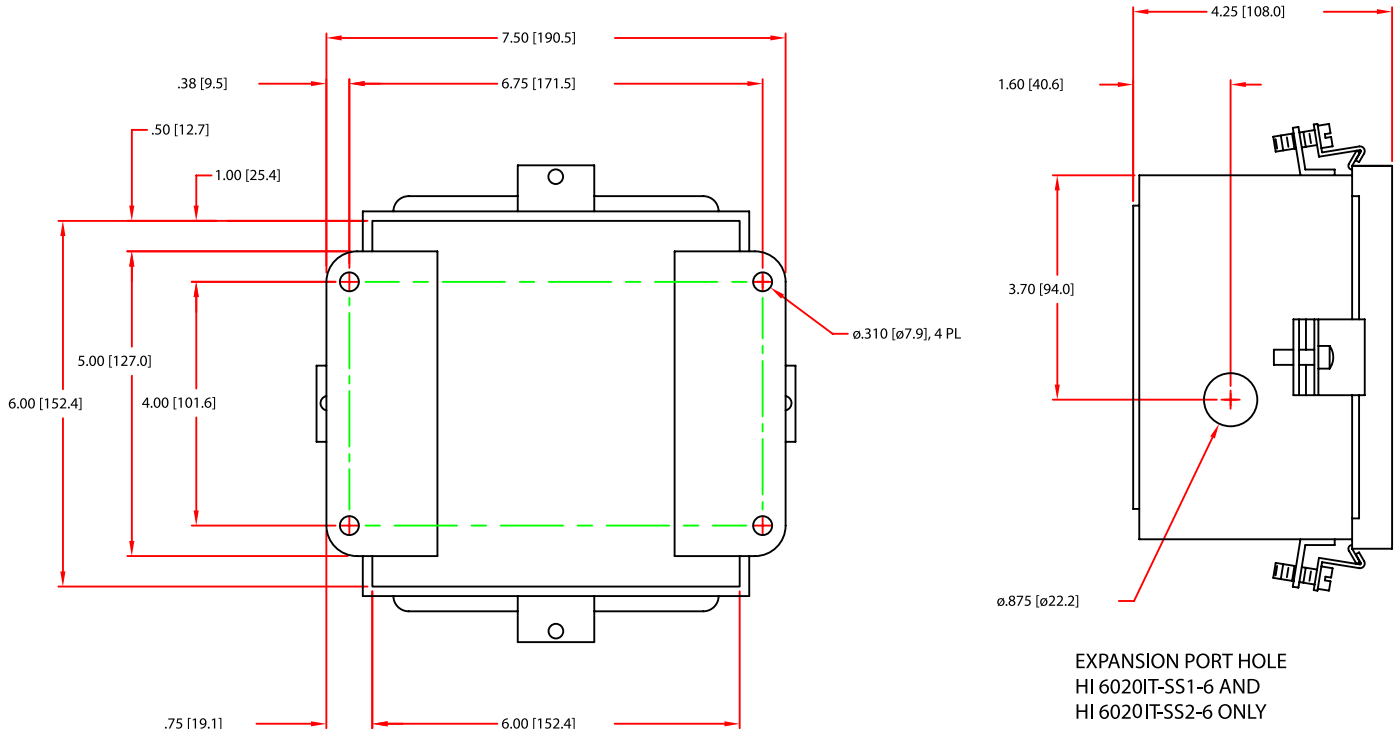
# Model HI 6020

## Summing Box

### Legacy Stainless Steel Summing Box

The Legacy Hardy HI 6020 Summing box features four latches that can be screwed down to create a tight seal when fastened. This interior seal is NEMA 4.X compliant and provides a robust wash-down installation. This Legacy version is currently shipping with all junction boxes that require a TB6 auxiliary connection to connect two HI 6020 Summing Boxes together to support between 5 and 8 load cells.

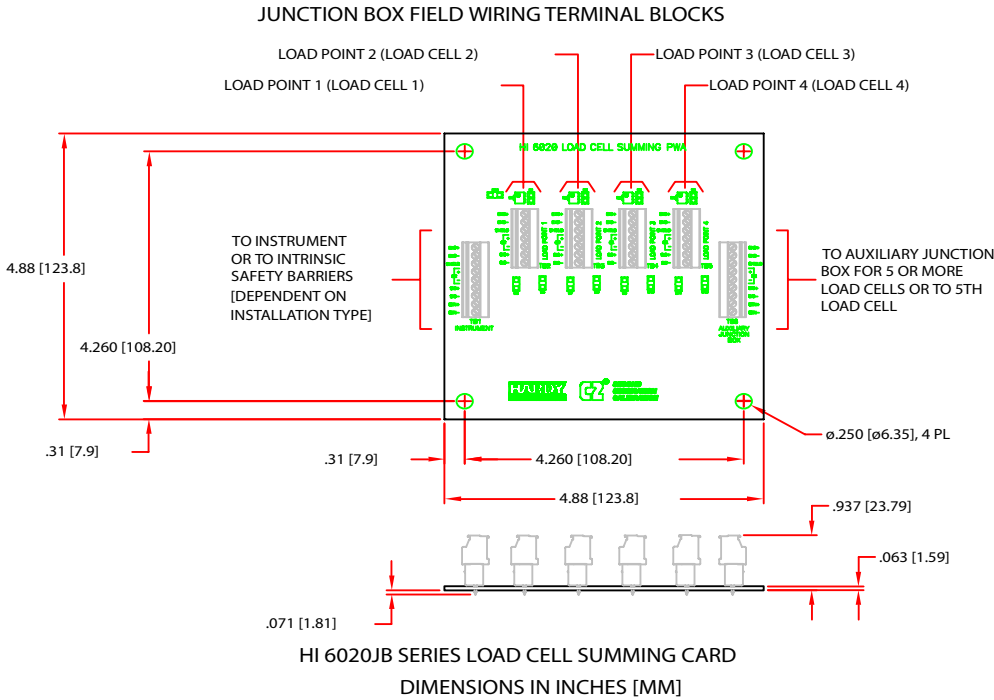
The HI 6020 Summing box is available with a variety of options, including IT, trim pots (for non-Hardy load cells) and a NEMA 4X enclosure in stainless steel, painted steel or fiberglass. Each box comes with two packaged hole plugs and five cable grip fittings suitable for load cell cables with an outside 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.



**Note:** IT Summing Card is the same for the Current and Legacy versions

# Model HI 6020 Summing Box

## HI 6020 SUMMING CARD (JB VERSION SHOWN)



## HI 6020 JUNCTION BOXES AND SUMMING CARD MODELS

MODEL #	DESCRIPTION
HI6020IT-PS1	Integrated Technician NEMA 4/IP66 Painted Steel, 5 holes/6 glands, Class I, II, III Div 2
HI6020IT-FG1	Integrated Technician NEMA 4X/IP66 Fiberglass, 5 holes/6 glands, Class I, II, III Div 2
HI6020IT-SS1	Integrated Technician Summing Card in Stainless Steel Enclosure, 5 holes/6 glands, Class I, II, III Div 1
HI6020IT-SS1-6	Integrated Technician Summing Card in Stainless Steel Enclosure, 6 holes/6 glands, Class I, II, III Div 1
HI6020IT-SC1	Integrated Technician Summing Card, no Enclosure
HI6020IT-PS2	Integrated Technician NEMA 4/IP66 Painted Steel with Trim Pots*, 5 holes/6 glands, Class I, II, III Div 2
HI6020IT-FG2	Integrated Technician NEMA 4X/IP66 Fiberglass with Trim Pots*, 5 holes/6 glands, Class I, II, III Div 2
HI6020IT-SS2	Integrated Technician NEMA 4X/ IP66 Stainless Steel with Trim Pots*, 5 holes/6 glands, Class I, II, III Div 2
HI6020IT-SS2-6	Integrated Technician NEMA 4X/ IP66 Stainless Steel with Trim Pots*, 6 holes/6 glands, Class I, II, III Div 1
HI6020IT-SC2	Integrated Technician Summing Card with Trim Pots*, no Enclosure
HI6020IT-SS1-EX	Integrated Technician NEMA 4X/IP66 Stainless Steel. Certified IS for ATEX and IECEx.
HI6020IT-SS2-EX	Integrated Technician NEMA 4X/IP66 with Trim Pots* Stainless Steel. Certified IS for ATEX and IECEx.
HI6020IT-SS1-6-EX	Integrated Technician NEMA 4X/IP66 Stainless Steel, 6-hole. ATEX and IECEx Approved.
HI6020IT-SS2-6-EX	Integrated Technician NEMA 4X/IP66 Stainless Steel, with Trim Pots*, 6-hole. ATEX and IECEx Approved.
HI6020JB-PS1	NEMA 4/IP66 Painted Steel, 5 holes/6 glands, Class I, II, III Div 2
HI6020JB-FG1	NEMA 4X/IP66 Fiberglass, 5 holes/6 glands, Class I, II, III Div 2
HI6020JB-SS1	Summing Card in Stainless Steel Enclosure, 5 holes/6 glands, Class I, II, III Div 1
HI6020JB-SS1-6	Summing Card in Stainless Steel Enclosure, 6 holes/6 glands, Class I, II, III Div 1
HI6020JB-SC1	Summing Card, no Enclosure
HI6020JB-PS2	NEMA 4/IP66 Painted Steel with Trim Pots*, 5 holes/6 glands, Class I, II, III Div 2
HI6020JB-FG2	NEMA 4X/IP66 Fiberglass with Trim Pots*, 5 holes/6 glands, Class I, II, III Div 2
HI6020JB-SS2	NEMA 4X/ IP66 Stainless Steel with Trim Pots*, 5 holes/6 glands, Class I, II, III Div 2
HI6020JB-SS2-6	NEMA 4X/ IP66 Stainless Steel with Trim Pots*, 6 holes/6 glands, Class I, II, III Div 1
HI6020JB-SC2	Summing Card with Trim Pots*, no Enclosure
HI6020JB-SS1-EX	NEMA 4X/IP66 Stainless Steel. Certified IS for ATEX and IECEx.
HI6020JB-SS2-EX	NEMA 4X/IP66 with Trim Pots* Stainless Steel. Certified IS for ATEX and IECEx.
HI6020JB-SS1-6-EX	NEMA 4X/IP66 Stainless Steel, 6-hole. ATEX and IECEx Approved.
HI6020JB-SS2-6-EX	NEMA 4X/IP66 Stainless Steel, with Trim Pots*, 6-hole. ATEX and IECEx Approved.

\*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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