# HARDY
## PROCESS SOLUTIONS
### Measurement ▪ Automation ▪ Productivity

## HI 8000 Intrinsically Safe Series
# Weight Indicator for Hazardous Areas

## PROCESS WEIGHING
## Applications

- *Batching/Blending*
- *Filling/Dispensing*
- *Dosing*
- *Checkweighing*
- *Inventory Management*

HI 8200IS                    HI 8100IS with Battery

## Features

- Backlit display for readability in all lighting conditions
- Responsive user interface that is easy to operate, even when wearing gloves
- Fiber optic interface to safe area RS-232 printers or data collection software
- Four Units of Measure: LB, KG, OZ or G mode
- Two remote switch inputs
- Use with up to four 350-ohm load cells, ideal for interface with IS certified floor scales or tank and hopper scales
- Precision engineering and built in the USA.  We meet all the functional and operational needs of IS customers and designed the IS line of indicators and options to deliver maximum performance at an outstanding value

### HI 8200IS Intrinsically Safe Weighing Indicator
The HI 8200IS is an advanced indicator with checkweighing features designed for use in hazardous locations. The instrument is ideal for manufacturing processes where equipment routinely is exposed to flammable gases; flammable or combustible liquid-produced vapors; combustible dusts or ignitable fibers; or flyings. Fiber optic connectors provide a safe and reliable way to power the instrument.

The HI 8200IS is extremely versatile for a range of environments and weighing demands. With both battery or AC power options it can serve everywhere from on-site testing where portable battery-powered equipment is required to large manufacturing facilities that facilitate permanent AC installation. Specific applications and environments include fuel refineries, machinery maintenance, chemical plants, chemical storage, distilleries, and textile manufacturing.

### HI 8100IS Intrinsically Safe Weighing Indicator
The HI 8100IS is a basic five-button indicator designed for use in hazardous locations.  It is ideal for manufacturing processes where equipment gets exposed to flammable gases; flammable or combustible liquid-produced vapors; combustible dusts or ignitable fibers; or flyings.

The HI 8100IS also features both battery and AC power options. The simplified user interface makes it intuitive to use by a wide range of operators with varying degrees of technical expertise.   The HI 8100IS is extremely versatile for a range of weighing demands, from tank-based inventory control to batching operations in chemical environments.  Specific applications and environments include fuel refineries, machinery maintenance, chemical plants, chemical storage, distilleries, and textile manufacturing.

### SOLID PERFORMANCE
**UL Intrinsically Safe (IS):** Certified in all Classes, Divisions, and Groups in accordance with U.S. UL and American National Standards Institute (ANSI) and with CAN Standards. The indicator is also certified IP6X against hazardous dust and fine particles that can ignite.

**Two Power Options:** AC line power for permanent installation in the safe or hazardous area; or high-performance external rechargeable battery pack that is easy to remove for recharging in the safe area. For continuous battery power, maintaining multiple batteries allows for fast swapping in/out.

**304 Stainless Steel Construction:** Ideal for heavy washdown and resistance to many chemicals, dust and corrosion.

## SPECIFICATIONS

**Common to HI 8200IS and HI8100IS**

### UL Certificate Number:
- E243588-20191209

### Hazardous Classifications
- Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III

### Enclosure:
- 304 SS Stainless Steel

### Product Dimensions:
- 10" W x 6.75" H x 3.5" D without battery.

### Environmental Protection:
- IP6X

### Temperature Range
- 14 F to 104F (-10 C to +40 C)
- 8CHG only: 14 F to 86 F (-10 C to +30 C)

### Altitude, Humidity, Pollution Degree:
- Up to 2000 meters
- Maximum relative humidity 95%, non-condensing
- Pollution degree: 2

### Resolution:
- 200d to 100,000d
- A/D: 24-bit

### Excitation Voltage:
- 5VDC

### Number of Load Cells:
- Up to 4 at 350 $\Omega$ 4 to 6 wire input

### Analog Signal Sensitivity:
- 0.16 $\mu$V/e minimum, 0.5$\mu$V/e

### System Linearity:
- 0.01% full scale

### Load Cells:
- Load cells must be certified for appropriate hazardous area and entity parameters. See note #1 on Control Drawing 0594-0013
- Uo 7.14 V, Io 0.7076 A, Po 0.895 W, Co 10.8 uF, Lo 71 uH

### Scale Inputs:
- One

### Calibration Range:
- Calibrate between 2% and 100% of capacity

### Power Input:
- 100 VAC 50/60 Hz UL

### Battery Option:
- Rechargeable Sealed Lead Acid Battery
- Charging time 36 for 8 hours of continuous use, 1000 recharge cycles

### Scale Inputs:
- One 1"H, 6 digit backlit LED

### Display Units:
- lb, kg, oz, g, lb:oz

### Capacity Range:
- 1 to 999,999 lb

### Communication Options:
- Fiber Optic to RS-232 Output

### Remote Switch Inputs:
- Two remote switch inputs

### Control Drawing:
- 0594-0013

## ORDER NUMBERS: HI 8000IS SERIES

| Order # | Description |
| --- | --- |
| HI8200IS | Single Channel Intrinsically Safe Weight Indicator with Checkweighing Function |
| HI8100IS | Single Channel Intrinsically Safe Weight Indicator |
| HI8BISPK | Two Batteries and Safe Area Charger Package |
| HI8AIS | AC to DC Power Supply (Hazardous Areas BCD Only) |

HI8BISPK: Two battery packs and safe area battery charger

HI8AIS AC To DC Power Supply (Hazardous Area Use BCD only)

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