

320 **IS** 320 **IS PLUS**

INTRINSICALLY-SAFE  
DIGITAL WEIGHT INDICATORS



**RICE LAKE WEIGHING SYSTEMS**

Commitment Beyond Measurement™

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# 320<sup>IS</sup> 320<sup>IS PLUS</sup> INTRINSICALLY-SAFE DIGITAL WEIGHT INDICATORS



## Two Solutions for Hazardous Locations

Designed with the level of safety your location requires, the 320IS digital weight indicator meets hazardous environment requirements without hesitation. With Factory Mutual (FM) entity approval, it is the ideal solution for dangerous and highly explosive environments. Even in dimly-lit areas, the 320IS maintains brilliant visibility for user-friendly operation.

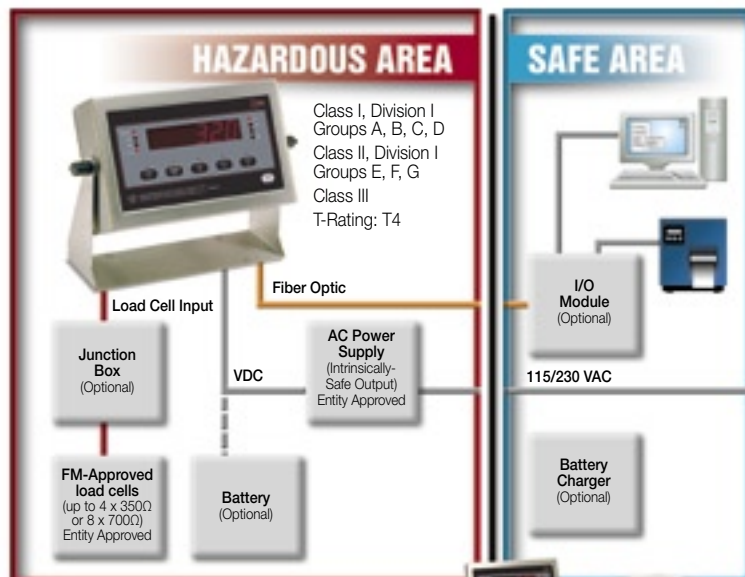
The intrinsically-safe, auto-ranging power supply is designed to meet 320IS entity parameters and safely mount in hazardous areas. With this option, wiring is simplified to a single AC conduit line and seal from the safe area—barrier strips are no longer necessary. When required, an entity approved battery power supply is also available.

For applications that require increased functionality, choose the **320IS Plus**. It combines the same great features of the 320IS, but includes a full numeric keypad and keyboard tare. The 320IS Plus is also equipped with standard count mode.

Expand the flexibility of the 320IS and the 320IS Plus with the optional safe area I/O Module, featuring two serial ports, two analog outputs, four digital inputs and four relay contact outputs, allowing communication with printers, computers and other peripherals. Both models are equipped with a duplex fiber optic port for electrically-isolated communication with the I/O Module.

For IS entity approval, Rice Lake offers hundreds of FM-approved load cells that interface with the 320IS and 320IS Plus indicators in accordance with the official FM control drawings.

*A typical 320IS installation in a hazardous industrial area.*



*320IS indicator shown with the IS-EPS-100-240 VAC Power Supply and I/O Module. (cables required not shown)*

## Standard Features

- Bright LED display
- Power ON/OFF, battery save mode
- Stainless steel NEMA 4X/IP66 enclosure
- Front-panel digital calibration
- Excitation for 4 x 350Ω or 8 x 700Ω load cells
- Gross/Tare/Net computation
- Tilt stand
- Duplex fiber optic interface
- Factory Mutual (FM) entity approved
- Class I Division I Groups A, B, C, D and Class II Division 1 Groups E, F, G and Class III; T-Rating: T4
- NTEP-certified

## 320IS Plus

- Eight setpoint kinds (requires I/O module)
- Count mode
- Keyboard tare
- Expanded digital inputs and outputs

## Options/Accessories

- 115/230 VAC auto ranging power supply
- 6V battery and charger
- I/O Module, 2 serial ports configurable as RS-485, RS-422, RS-232 or 20mA, 2 analog outputs, 4 digital inputs and 4 relay contact outputs (AC powered)
- IS cable: hazardous environment load cell cable
- Fiber optic cable
- Timer relay for latching (320IS)

## Specifications

### POWER

**Nominal Voltage:** Intrinsically-safe power supply (6.8VDC at 190mA output) or optional 6VDC battery

**Min/Max Voltage:** 5.8VDC/7.9VDC

### ANALOG SPECIFICATIONS

**Measurement Rate:** 60 measurements/sec

**Load Cells:** 4 x 350Ω or 8 x 700Ω

### DIGITAL SPECIFICATIONS

**Digital Filter:** RATTLETRAP™ digital filtering

### OPERATOR INTERFACE

**Display:** 6-digit LED display. 16-segment, 0.8" (20mm) digits

**Annunciators:** Gross, net, center of zero, standstill, lb/primary units, kg/secondary units; 320IS Plus – count

### ENVIRONMENTAL

**Operating Temp:** 14°F to +104°F (-10°C to +40°C)

**Storage Temp:** -13°F to +158°F (-25°C to +70°C)

**Humidity:** 0-95% relative humidity

### ENCLOSURE

**Enclosure Size:** 9.5" x 6" x 2.75" (24 cm x 15 cm x 7 cm)

**Weight:** 6.1 lb (2.8 kg)

**Rating/Material:** UL Type NEMA 4X/IP66

**Warranty:** 1-year limited warranty

## Approvals



CC #03-078A1  
n<sub>max</sub> = 10,000  
Class III/III.L

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