

320 IS 320 IS PLUS

INTRINSICALLY-SAFE
DIGITAL WEIGHT
INDICATORS



LB Les Balances
LEDUC & THIBEAULT

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.

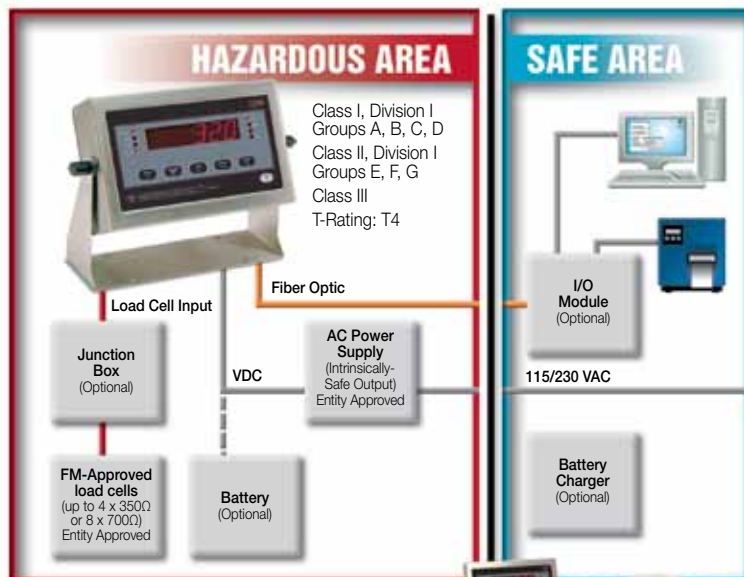
The intrinsically-safe, auto-ranging power supply is designed to meet 320IS entity parameters and safely mount in hazardous areas. With this option, wiring is simplified to a single AC conduit line and seal from the safe area—barrier strips are no longer necessary. When required, an entity approved battery 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, 0.8in (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: 9.5in x 6in x 2.75in (24cm x 15cm x 7cm)

Weight: 6.1lb (2.8kg)

Rating/Material: UL Type NEMA 4X/IP66

Warranty: 1-year limited warranty

Approvals



CC #03-078A1
n_{max} = 10,000
Class III/IIIL