

# DFI 320IS PLUS – INTRINSICALLY SAFE DIGITAL WEIGHT INDICATOR

Designed with the level of safety your location requires, the 320IS Plus 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 Plus maintains brilliant visibility for user-friendly operation.

The intrinsically-safe, auto-ranging power supply is designed to meet 320IS Plus 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.

## SPECIFICATIONS

LOAD CELL EXCITATION:	3.0 VDC at 87.5 $\Omega$ 4.6 VDC at 700 $\Omega$
LOAD CELL CURRENT:	34 mA (4 x 350 $\Omega$ load cells) or (8 x 700 $\Omega$ load cells)
LOAD CELL CABLING:	4 and 6-wire with remote sensing (recommended)
ANALOG INPUT RANGE:	0.6 mV/V - 4.0 mV/V
ANALOG SENSITIVITY:	0.2 $\mu$ V/graduation minimum 1.5 $\mu$ V/graduation recommended
CONVERSION RATE:	60 updates/second
RESOLUTION:	10,000 displayed graduations (NTEP), 100,000 expanded The maximum number of allowed graduations will vary by application
DISPLAY INCREMENTS:	1, 2, 5
DISPLAY:	6-digits, light emitting diode (LED); 16-segment, 0.8 in (20 mm) digits
DECIMAL POINT:	Configurable with dead zeros
UNIT SWITCHING:	Configurable for two units of measurement with front panel operation with conversion for tare and setpoint values
FRONT PANEL CONTROL SWITCHES:	Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop, Accum, Tare Display
FRONT PANEL:	24-button flat membrane panel
FRONT PANEL LED ANNUNCIATORS:	Center Zero, Gross, Net, Motion, lb, kg, oz, g
MOTION BAND:	Configurable to $\pm 1$ or $\pm 3$ graduations, 1 second delay (or Off)
POWER INPUT:	5.8 - 7.9 VDC, 100 - 175 mA Maximum power consumption 0.25 watts

(continued next page)

- LED DISPLAY, 0.8 IN (20 MM), 6-DIGIT, 16-SEGMENT
- STAINLESS STEEL NEMA TYPE 4X/IP66 ENCLOSURE
- T4 TEMPERATURE RATING
- FRONT PANEL DIGITAL CALIBRATION
- AUTOMATIC ZERO AND SPAN TEMPERATURE COMPENSATION
- EXCITATION FOR FOUR 350 OHMS OR EIGHT 700 OHMS LOAD CELLS
- GROSS/TARE/NET COMPUTATION
- TILT STAND
- NUMERIC KEYPAD
- DUPLEX FIBER OPTIC INTERFACE
- POWER ON/OFF; BATTERY SAVE MODE
- I/O MODULE OPTION: TWO SERIAL PORTS, TWO ANALOG OUTPUTS, FOUR DIGITAL INPUTS, FOUR RELAY CONTACT OUTPUTS
- EIGHT SETPOINT (REQUIRES I/O MODULE)
- FACTORY MUTUAL (FM ENTITY APPROVED FOR CLASSES I, II, AND III; DIVISIONS 1 AND 2; GROUPS A, B, C, D, E, F, AND G)
- TIME & DATE (REQUIRES I/O MODULE)

FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 72717.

DFI 320IS



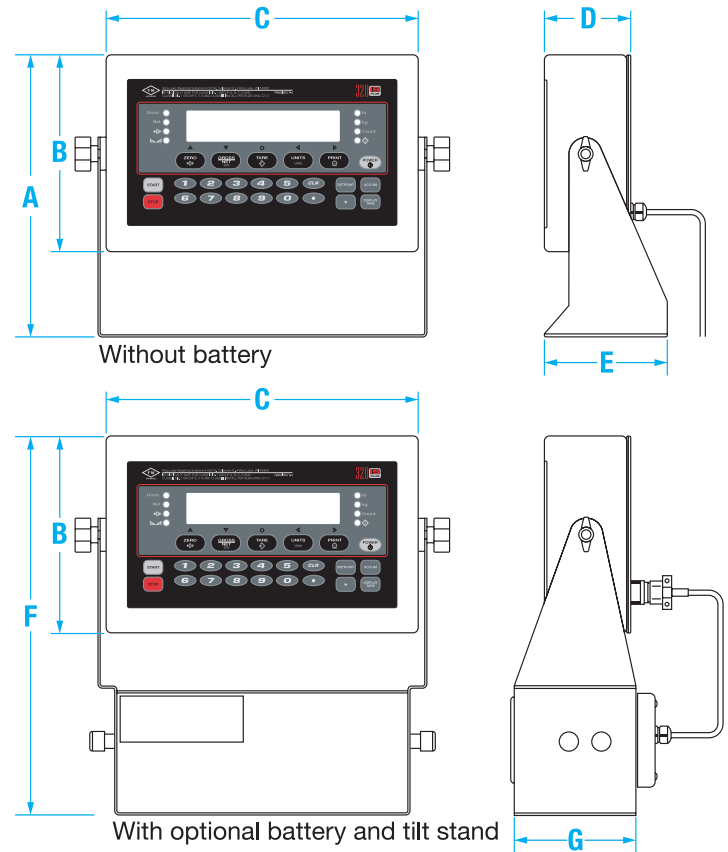
# DFI 320IS PLUS – INTRINSICALLY SAFE DIGITAL WEIGHT INDICATOR

## SPECIFICATIONS

TEMPERATURE:	14°F to 104°F (-10°C to 40°C) legal
RATING/MATERIAL:	Stainless steel NEMA Type 4X/ IP66 enclosure
OPTIONAL BATTERY:	Operating times: 4 x 350 Ω = 35-40 hrs 1 x 350 Ω =40-50 hrs
WEIGHT:	Charging times: 10 hrs for dead battery, 14 hrs for initial charge 6.1 lb (2.8 kg)
WARRANTY:	One-year limited warranty
APPROVALS:	NTEP CC 03-078 Class III/ IIL 10,000d, c-UL Listed, FM Entity, Measurement Canada AM-5560

Rice Lake Weighing Systems® warrants that all Rice Lake Weighing Systems intrinsically safe (IS) equipment and systems installed by a distributor or original equipment manufacturer (OEM) will operate per written specifications as confirmed by the distributor/OEM and accepted by Rice Lake Weighing Systems. All systems and components are warranted against defects in materials and workmanship for one year.

All Rice Lake Weighing Systems intrinsically safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured Rice Lake Weighing Systems factory authorized personnel. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake Weighing Systems factory authorized personnel.



## DIMENSIONS

### Without Battery

A	8.56 in (217.4 mm)	D	2.64 in (67.1 mm)
B	6.00 in (152.4 mm)	E	3.75 in (95.2 mm)
C	9.50 in (241.3 mm)		

### With Optional Battery and Tilt Stand

F	11.56 in (293.6 mm)	G	4.75 in (120.7 mm)
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### Optional I/O Module

12.90 in x 11.63 in x 6.25 in (327.7 mm x 295.4 mm x 158.8 mm)

### Optional Power Supply

7.00 in x 5.13 in x 3.125 in (177.8 mm x 130.0 mm x 79.375 mm)