

320IS

Intrinsically-Safe Digital Weight Indicator



CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

APPROVALS



Measurement
Canada
Approved



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

STANDARD FEATURES

- Bright Light Emitting Diode (LED)
- Stainless steel NEMA 4X/IP66 enclosure
- T4 temperature rating
- Front-panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for four 35Ω or eight 700Ω load cells
- Gross/Tare/Net computation
- Tilt stand
- Factory Mutual (FM) Entity approved
- Duplex fiber optic interface 200
- Power ON/OFF; battery save mode
- I/O Module Option: duplex 2 serial ports, 2 analog outputs, 4 digital inputs, 4 relay contact outputs.
- Factory Mutual (FM) entity approved for Classes I, II, and III, Divisions 1 and 2, Groups A, B, C, D, E, and G
- 300 character serial string
- Four setpoints for running (relays included in I/O module)

*Exclusions: The following load cells cannot be used with the 320IS: RL71000HE, RL8000HE, RL8000KM, RLBEAM, and RL32155.

SPECIFICATIONS

LOAD CELL EXCITATION:

3.0VDC @ 87.5Ω
4.6VDC @ 700Ω

LOAD CELL CURRENT:

34mA (4 x 350Ω load cells) or
(8 x 700Ω load cells)

LOAD CELL CABLING:

4 and 6-wire with remote sensing
(recommended)

ANALOG SIGNAL INPUT RANGE:

0.6mV/V - 4.0mV/V

ANALOG SIGNAL SENSITIVITY:

0.2μV/graduation minimum
1.5μV/graduation recommended

CONVERSION RATE:

60 updates/second

INTEGRATION TIME:

20 mSec typical

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:

Six-digits, Light Emitting Diode (LED);
16-segment, 0.8in (20mm) 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

FRONT PANEL:

6-button flat membrane panel

FRONT-PANEL LED ANNUNCIATORS:

Center Zero, Gross, Net, Motion, lb, kg, oz, g

MOTION BAND:

Configurable to ±1 or ±3 graduations, 1 second delay (or Off)

POWER INPUT:

5.8 - 7.9VDC, 100 - 175mA
Maximum power consumption 0.25 watts

OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C) legal

RATING/MATERIAL:

Stainless steel NEMA 4X/IP66 enclosure

OPTIONAL BATTERY:

Operating times: 4 x 350Ω = 35-40 hrs
1 x 350Ω = 40-50 hrs
8 x 700Ω = 35-40 hrs
Charging Times: 10 hours for dead battery,
14 hours for initial charge

WEIGHT:

6.1lb (2.8kg)

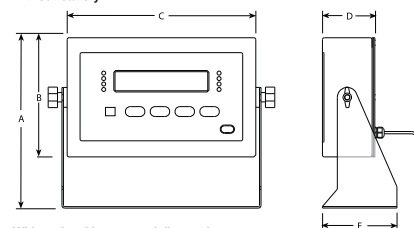
APPROVALS:

NTEP 03-078A1
(TUV, C (UL), FM Entity)
Measurement Canada Approved: AM-5560

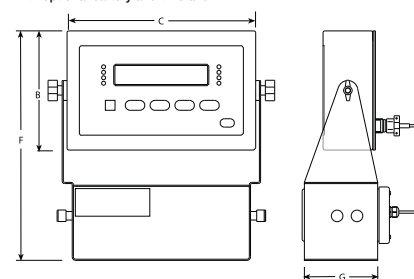
WARRANTY:

One-year limited warranty

Without battery



With optional battery and tilt stand



DIMENSIONS WITHOUT BATTERY			
A	8.56in (217.4mm)	D	2.64in (67.1mm)
B	6.00in (152.4mm)	E	3.75in (95.2mm)
C	9.50in (241.3mm)		
WITH OPTIONAL BATTERY AND TILT STAND			
F	11.56in (293.6mm)	G	4.75in (120.7mm)
OPTIONAL I/O MODULE			
12.90in x 11.63in x 6.25in (327.7mm x 295.4mm x 158.8mm)			
OPTIONAL POWER SUPPLY			
7.00in x 5.13in x 3.125in (177.8mm x 130.0mm x 79.375mm)			