

320IS Intrinsically-Safe Digital Weight Indicator



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

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

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.

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 350Ω or eight 700Ω load cells
- Gross/Tare/Net computation
- Tilt stand
- Factory Mutual (FM) Entity approved
- Duplex fiber optic interface 200 ft
- Power ON/OFF; battery save mode
- I/O Module Option: 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 I and 2, Groups A, B, C, D, E, F, and G

Specifications

LOAD CELL EXCITATION:

3.0 VDC @ 87.5Ω
4.6 VDC @ 700Ω

LOAD CELL CURRENT:

34 mA (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:

0.6 mV/V - 4.0 mV/V

ANALOG SIGNAL SENSITIVITY:

0.2 μV/graduation minimum
1.5 μV/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, 0.8 in (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 - 7.9 VDC, 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:

6.1 lb (2.8 kg)

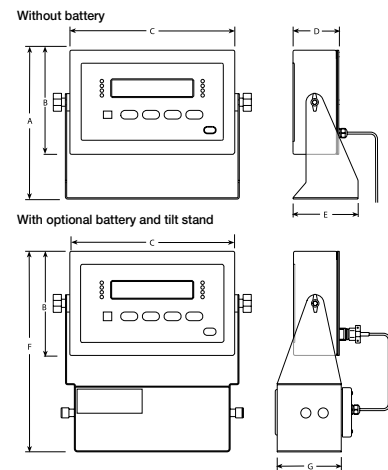
APPROVALS:

NTEP 03-078 (TUV, C (UL),
FM Entity)

Measurement Canada Approved:
AM-5560

WARRANTY:

One-year limited warranty



DIMENSIONS

Without battery

A = 8.56" (217.4 mm) B = 6.00" (152.4 mm)

C = 9.50" (241.3 mm) D = 2.64" (67.1 mm)

E = 3.75" (95.2 mm)

With optional battery and tilt stand

F = 11.56" (293.6 mm) G = 4.75" (120.7 mm)

Optional I/O Module

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

Optional Power Supply

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

Specifications subject to change without notice, contact IWSystems for additional information