# INTRINSICALLY SAFE **320IS** Intrinsically Safe Digital Weight Indicator



# Standard Features

- · LED display, 0.8 in (20 mm), six-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
- Duplex fiber optic interface
- Power ON/OFF; battery save mode
- I/O Module Option: two serial ports, two analog outputs, four 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, F and G
- FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 72717.

Rice Lake Weighing Systems<sup>®</sup> 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.

A 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.

# Specifications

- Load Cell Excitation: 3.0 VDC at 87.5 Ω
- 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:
- Four- and six-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
- **Resolution:** 10,000 displayed graduations (NTEP Certified),
- 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 (20 mm) digits

**Decimal Point:** Configurable with dead zeros

Unit Switching:



Configurable for 2 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:

Six-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

**Operating Temperature:** 14° F to 104° F (-10° C to 40° C) legal for trade

Rating/Material: Stainless steel NEMA Type 4X/IP66 enclosure

### **Optional Battery:**

Operating times:  $4 \times 350 \Omega = 35-40$  hrs  $1 \times 350 \Omega = 40-50 \text{ hrs}$  $8 \times 700 \Omega = 35-40 \text{ hrs}$ Charging Times: 10 hrs for dead battery,

14 hrs for initial charge

### Weiaht:

6.1 lb (2.8 kg)

Warranty: One-year limited warranty

# Approvals:

NTEP CC 03-078 Class III/IIIL 10,000d UL/cUL Listed FM Entity Measurement Canada AM-5560





**Approvals** 

Measurement Canada Approved

FM

APPROVED



# INDICATORS / CONTROLLERS

www.ricelake.com | Phone: 800-472-6703

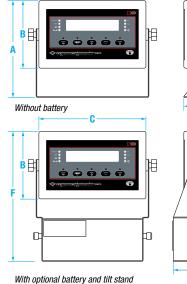


## Part Number/Price

Part #	Description	Price
91233	320IS intrinsically-safe digital weight indicator five- button keypad with battery pack and charger & tilt stand	\$1,827.00
91234	320IS instriniscally-safe digital weight indicator five- button with A/C power supply	\$1,827.00
177500	320IS indicator only	\$1,095.00

# **Options/Accessories**

Part #	Description	Price
174049	Power supply, IS-EPS-100-240 VAC	\$845.00
179142	DC extension cable 10 ft	\$100.00
179143	DC extension cable 25 ft	\$125.00
179144	DC extension cable 50 ft	\$150.00
179145	DC extension cable 75 ft	\$200.00
179146	DC extension cable 100 ft	\$225.00
72725	IS-6 V battery option with cable adapter	\$545.00
74001	Battery charger, 115 VAC	\$149.00
74002	Battery charger, 230 VAC	\$535.00
80869	Fuse, 1.25A, 250 V TR5 time-lag (replacement part for the I/O module)	\$2.50
72726	Tilt stand (required for battery model)	\$57.00
89239*	I/O module, stainless steel NEMA Type 4 enclosure, safe area option (requires fiber optic cable, AC power required)	\$1,295.00
83388	Timer relay kit includes din rail, timer relay for latching and mount	\$370.00
74612	Installation manual	\$35.00
78076	I/O module manual	\$30.00
Hazardous	Environment Cable	
32817	EL147IS hazardous environment cable	\$2.85/ft
72241	Hazardous environment 3 conductor	\$2.25/ft
78026	Fiber optic, duplex cable 100 ft	\$135.00
78027	Fiber optic, duplex cable 200 ft	\$270.00



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I/O module required for anything besides basic weighing

Dimensions						
Without Battery						
Α	8.56 in (217.4 mm)	D	2.64 in (67.1 mm)			
В	6.00 in (152.4 mm)	E	3.75 in (95.2 mm)			
С	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)			
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)						

