320IS Plus



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.

FM

APPROVALS



Canada Approved

SPECIFICATIONS

(VL)_{US}

LOAD CELL EXCITATION:

3.0VDC @ 87.5Ω 4.6 VDC @ 700 Ω

LOAD CELL CURRENT:

34 mA (4 x 350 Ω load cells) or $(8 \times 700 \Omega \text{ load cells})$

LOAD CELL CABLING: 4 and 6-wire with remote sensing (recommended)

ANALOG SIGNAL INPUT RANGE: 0.6mV/V - 4.0mV/V

ANALOG SIGNAL SENSITIVITY: 0.2 µV/graduation minimum

 $1.5 \mu V/graduation recommended$

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:

- 125
- DISPLAY: Six digits, Light Emitting Diode (LED); 16-seg-

ment, 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

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Prices and specifications subject to change without notice. Visit ricelake.com for current prices.



Operating Times: 4 x 350 Ω = 35-40 hrs.

- 1 x 350 Ω = 40-50 hrs. Charging Times: 10 hours for dead battery,
- 14 hours for initial charge

WEIGHT:

6.1 lb (2.8 kg)

Measurement Canada Approved: AM-5560

WARRANTY:

One-year limited warranty

Intrinsically Safe Digital Weight Indicator

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
- 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)

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

FM Entity Approved for use in hazardous

locations per Rice Lake Weighing Systems control drawing file number 72717.

MOTION BAND:

Configurable to ±1 or ±3 graduations, 1 second

POWER INPUT:

APPROVALS:

NTEP pending (TUV, C (UL), FM Entity 03-078A1)







			к −−− G −−→			
DI	DIMENSIONS WITHOUT BATTERY					
Α	8.56in (217.4mm)	D	2.64 in (67.1 mm)			
В	6.00in (152.4mm)	Ε	3.75 in (95.2 mm)			
С	9.50in (241.3mm)					
	TH OPTIONAL BATT					
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						
(32	(327.7 mm x 295.4 mm x 158.8 mm)					
OPTIONAL POWER SUPPLY						
7.0	7.00 in x 5.13 in x 3.125 in					
(17	77.8mm x 130.0mm	x 7	9.375 mm)			



320IS Plus

SPECIFICATIONS (CONTINUED)



91235	
91236	Consult factory
86240	Consult factory
Hazardous Environment Cable and Fiber Optic Cable	
32817 EL147IS hazardous environment cable	Consult factory
72241 Hazardous environment 3 conductor	Consult factory
78026 Fiber optic, duplex cable 100ft	Consult factory
78027 Fiber optic, duplex cable 200 ft	Consult factory

OPTIONS/ACCESSORIES

72713 Power supply, IS-EPS-100-240 VAC Consult factorial construction of the construction of th	tory
72725IS-6V battery option with cable adapterConsult factor	tory
74001Battery charger, 115 VAC	tory
74002	tory
80869 Fuse, 1.25 A, 250 V TR5 time-lag (replacement part for the I/O Module)	tory
72726 Tilt stand (required for battery model) Consult fac	tory
89239 I/O Module, stainless steel NEMA 4 enclosure, safe area option (requires fiber optic cable, AC power required) Consult fact	tory
83388 Timer relay kit includes din rail, timer relay for latching and mount Timer relay kit includes din rail, timer relay for latching and mount	tory
85353Installation manual	tory
78076 I/O Module manual Consult fac	tory

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.

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