IQ 700IS

Intrinsically Safe Digital Weight Indicator

STANDARD FEATURES

- Bright Light Emitting Diode (LED)
- Stainless steel NEMA 4X enclosure
- Front panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for four 350Ω load cells at 5VDC
- Gross/Tare/Net computation
- Time and date
- Tilt stand
- Setup parameters printout
- Bidirectional 20mA current loop communication port

APPROVALS

Measurement Canada Approved

FM APPROVED

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

SPECIFICATIONS

LOAD CELL EXCITATION:
1 - 350Ω load cell @ 4.56VDC
2 - 350Ω load cell @ 4.28VDC
3 - 350Ω load cell @ 4.06VDC
4 - 350Ω load cell @ 3.82VDC

LOAD CELL CURRENT:
57mA (4 x 350Ω load cells)

LOAD CELL CABLING:
6-wire with remote sensing

ANALOG SIGNAL INPUT RANGE:
0.7mV/V - 3.2mV/V

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation

CONVERSION RATE:
10 updates/second

INTEGRATION TIME:
20 mSec typical

RESOLUTION:
10,000 displayed graduations (NTEP), 80,000 expanded
The maximum number of allowed graduations will vary by application

DISPLAY INCREMENTS:
1, 2, 5, 10, 20, 50, 100

UNDERRANGE COUNT CAPACITY:
(–) 400 graduations, typical

LEAD ZERO BLANKING:
Standard per NBS Handbook H-44

DISPLAY:
Six digits, Light Emitting Diode (LED); 0.6in (15.2mm), 7-segment display digits

POLARITY INDICATION:
" – " sign

DECIMAL POINT:
Configurable to 0, 0.0, 0.00, 0.000, 0.0000

LB/KG SWITCHING:
Configurable for front panel operation with conversion for tare and setpoint values

FRONT-PANEL CONTROL SWITCHES:
Zero, Gross/Net, Tare, Tare Recall, Print, lb/kg conv

5-POINT LINEARIZATION:
Allows up to 5 entry points when selected

NUMERIC KEYBOARD:
0-9 keys plus ENT (Enter) and CE (Clear Entry) keys

FRONT-PANEL LED ANNUNCIATORS:
Center Zero, Gross, Net, Motion, lb, kg

AZM: (ZERO TRACK)
"Gross" mode only; operable over ±5 grads, ±1.0 grads, ±3.0 grads (or Off)

PAZ AND AZM APERATURE:
Configurable to ±1.9% Full Scale or 100% Full Scale

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

POWER INPUT:
115/230VAC; 50/60Hz, 6VDC battery option

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

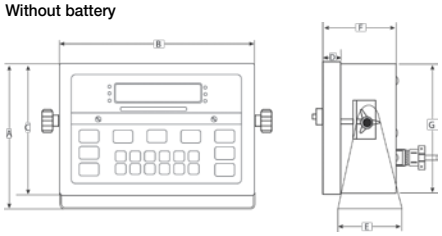
RATING/MATERIAL:
NEMA 4X polished stainless steel housing

WEIGHT:
9.5lb (4.31kg)

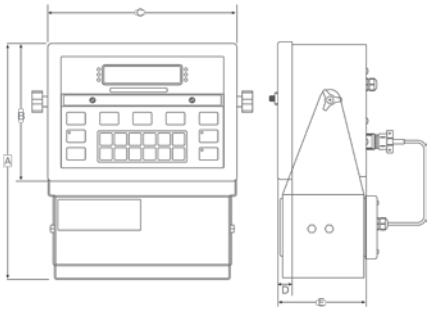
APPROVALS:
NTEP Certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 89-023A2
Measurement Canada approved, S.WA-4131 Add.1.
Factory Mutual approved, #0Z0A2.AX

WARRANTY:
One-year limited warranty

Without battery



With optional battery and tilt stand



DIMENSIONS WITHOUT BATTERY			
A	7.36in (186.9mm)	**E**	3.94in (100.1mm)
B	9.12in (231.6mm)	**F**	4.14in (105.2mm)
C	6.62in (168.1mm)	**G**	6.35in (161.3mm)
D	.70in (17.8mm)		
WITH OPTIONAL BATTERY AND TILT STAND			
A	11.35in (288.3mm)	**D**	0.70in (17.8mm)
B	6.62in (168.1mm)	**E**	4.25in (107.9mm)
C	9.12in (231.6mm)		

NOTE: The following load cells can not be used with IQ 700 IS or Condec™ UMC 600 IS: RL71000HE, RLBEAM, RL32155 and RL8000, RL8000KM

PART #	DESCRIPTION	EST. SHIP WEIGHT
32708	IQ 700 IS Hazardous Environment Digital Weight Indicator	14 lb
System Hardware		
31222	115 VAC EP/IS power supply w/6 ft AC cable (needs PS cable B)	9 lb
31221	230 VAC EP/IS power supply w/6 ft AC cable (needs PS cable B)	9 lb
31215*	IS battery option w/12 in cable w/connector	8 lb
A-Load Cell Cable Assembly: Required with Junction Box		
36444	Load cell cable, 10 ft	
44313	Load cell cable, 25 ft	
44314	Load cell cable, 50 ft	
44315	Load cell cable, 75 ft	
44316	Load cell cable, 100 ft	
B-Power Supply Cable Assembly: Required with AC supply		
31212	Power supply cable, 10 ft	
48690	Power supply cable, 25 ft	
48691	Power supply cable, 100 ft	

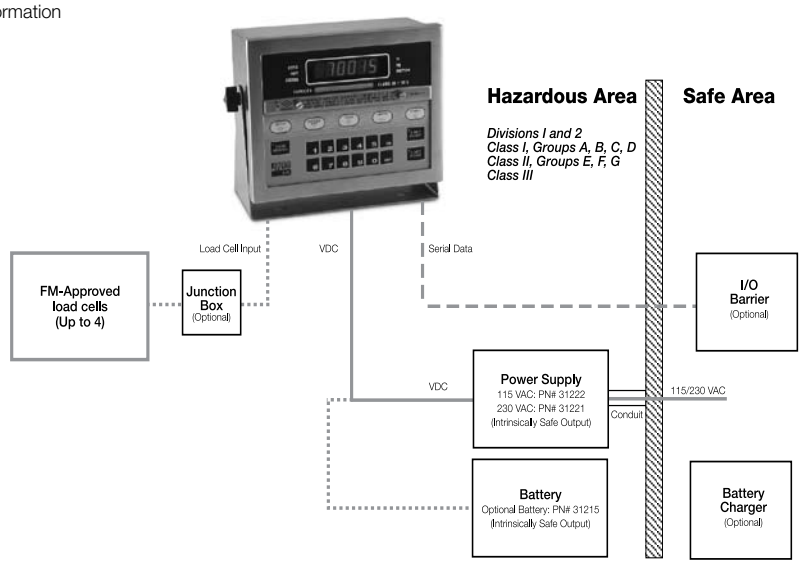
* Tilt stand #52216 and battery charger required for indicator with battery

For custom cable lengths add $1.50 per foot to the standard lengths listed above

OPTIONS/ACCESSORIES

51966	Battery charger, 115 VAC	
63027	Battery charger, 230 VAC	
52216	Tilt stand, required for indicator with battery	
63224	Analog output, 0-10 or 4-20 mA (safe area option, requires I/O barrier)	
44061	I/O barrier assembly	
36528	Additional operating manual	
C-Serial Output Cable (required with I/O barrier):		
36448	Serial output cable, 10 ft	
48687	Serial output cable, 25 ft	
48688	Serial output cable, 100 ft	

NOTE: Consult factory for information on intrinsically safe indicator repair/exchange program



Rice Lake Weighing Systems/CondecTM warrants that all Rice Lake Weighing Systems/Condec 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/Condec Intrinsically Safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured and sealed at the Rice Lake Weighing Systems/Condec factory authorized personnel. Breaking the enclosure seal on these devices will void both the warranty and Factory Mutual approval. This includes circuit board and component replacement. 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/Condec factory authorized personnel.

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