# **Instrumentation/Process Control**

## **IQ 700IS**

## Intrinsically Safe Digital Weight Indicator



#### **APPROVALS**





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

## STANDARD FEATURES

- Bright Light Emitting Diode (LED)
- Stainless steel NEMA 4X encloser
- Front panel digital calibration
- Automatic zero and span temperatur compensation
- Excitation for four 35Q load cells at 5/DC
- Gross/Tare/Net computation
- Time and date
- Tilt stand
- Setup parameters printout
- Bidirectional 20mA current loop communication port

## **SPECIFICATIONS**

#### LOAD CELL EXCITATION:

- 1 350 O load cell @ 4 56 VDC
- 2 350 Ω load cell @ 4.28 VDC
- 3  $350\,\Omega$  load cell @ 4.06 VDC
- 4 350 Ω load cell @ 3.82 VDC

#### LOAD CELL CURRENT:

57 mA (4 x 350 Ω load cells)

## LOAD CELL CABLING:

6-wire with remote sensing

#### ANALOG SIGNAL INPUT RANGE:

0.7 mV/V - 3.2 mV/V

### **ANALOG SIGNAL SENSITIVITY:**

0.3 µV/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); 0.6 in (15.2 mm), 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 (Cléar Entry) keỳs

#### 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:**

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

#### **OPERATING TEMPERATURE:**

14°F to 104°F (-10°C to 40°C)

## **RATING/MATERIAL:**

NEMA 4X polished stainless steel housing

#### WEIGHT:

9.5 lb (4.31 kg)

#### **APPROVALS:**

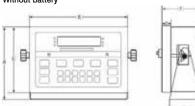
NTEP Certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 89-023A2 Measurement Canada approved, S.WA-4131 Add.1.

Factory Mutual approved, #0Z0A2.AX

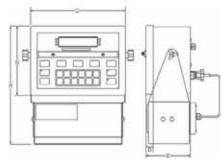
#### WARRANTY:

One-year limited warranty

#### Without battery



With optional battery and tilt stand



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

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







