

## IQ plus<sup>®</sup> 390-DC Battery Powered Digital Weight Indicator



### Approvals



Measurement  
Canada  
Approved



PART #	DESCRIPTION
48815	..... IQ plus 390-DC, Battery powered with 115 VAC wall adapter
50064	..... IQ plus 390-DC, Battery powered with 230 VAC wall adapter
66727	..... IQ plus 390-DC, Battery powered, CE marked (voltage adapter sold separately)

Featuring DC operation, a huge 1-inch, six-digit LCD display, and a stainless steel NEMA 4X/IP66 enclosure, the IQ plus 390-DC delivers heavy-duty performance without a heavy-duty price.

With a battery life in excess of 300 hours utilizing one load cell, the IQ plus 390-DC not only outperforms rivals but enhances productivity by reducing operator error with its easy to read display. And unlike most competitive units, the IQ plus 390-DC features a piece count mode that allows the indicator to serve as part of a portable counting scale system. For added efficiency, it includes a configurable standby mode that saves battery life and an AC adapter for flexible operation.

The IQ plus 390-DC is encased in a stainless steel NEMA 4X/IP66 enclosure for long lasting performance regardless of environment. In addition, three 300-character ticket formats are easily programmed using Revolution™ Scale Software. This unique Windows®-based software also allows simple remote configuration of the IQ plus 390-DC.

Suitable for multi-cell applications, the IQ plus 390-DC runs on standard C-cell alkaline batteries and drives up to four 350Ω load cells. It also incorporates RATTLETRAP® three-stage digital filtering that provides stable, accurate weight data regardless of the environment. A six-button panel provides simple operation, calibration, and configuration.

### Applications

- Washdown environments
- Portable scales
- Warehousing
- Floor and bench scales
- Agricultural
- Portable counting

### Standard Features

- NEMA 4X/IP66-rated stainless steel enclosure
- Large 1" (24.5 mm), six-digit Liquid Crystal Display (LCD)
- 6-button operation
- Power for four 350Ω load cells or eight 700Ω load cells
- Configurable units multiplier
- Supports 4- and 6-wire load cell connections
- EDP port for full duplex, RS-232 communications
- Powered by 6 "C" cell alkaline batteries for complete portability (batteries not included)
- AC adapter for 115 or 230 VAC power
- Configurable standby mode that saves battery life
- RATTLETRAP three-stage digital filtering
- Piece count mode

### Options/Accessories

- 65738.....Livestock weighing program, AW 1.02 (not NTEP certified)
- 77925.....Revolution III Scale Software\*
- 48820.....Additional operating manual

\* Revolution III can be downloaded for FREE from the distributor section of our web site at [www.rlws.com](http://www.rlws.com)



**POWER:**

9 VDC, provided by 6 "C" cell alkaline batteries or AC adapter

**POWER CONSUMPTION:**

100 mA (using 4 x 350Ω load cells),  
25 mA typical (1 load cell)

**FULL SCALE INPUT SIGNAL:**

Up to 17mV

**EXCITATION VOLTAGE:**

5 ± 0.25 VDC, 4 x 350Ω or 8 x 700Ω load cells

**SENSE AMPLIFIER:**

Differential amplifier with 4- and 6-wire sensing

**INPUT RANGE:**

-2.5 mV – 22.5 mV or -5 mV/V – 4.5 mV/V

**SENSITIVITY:**

0.3 μV/graduation minimum  
1.5 μV/grad recommended

**INPUT IMPEDANCE:**

200 MΩ

**INTERNAL RESOLUTION:**

1,000,000 counts

**DISPLAY RESOLUTION:**

100,000dd

**MEASUREMENT RATE:**

30, 15, 7 1/2, 3 3/4 per second

**SYSTEM LINEARITY:**

Within 0.01% of full scale

**ZERO STABILITY:**

155 nV/°C, maximum

**SPAN STABILITY:**

4.0 ppm/°C, maximum

**CALIBRATION METHOD:**

Software, constants stored in EEPROM

**COMMON MODE VOLTAGE:**

2.5 ± .25 VDC

**INPUT OVERLOAD:**

± 12 V continuous, static discharge protected

**DIGITAL SPECIFICATIONS:**

Digital Filter: RATTLETRAP® software filtering

**SERIAL COMMUNICATIONS:**

EDP/Printer Port: Full Duplex RS-232

**OPERATOR INTERFACE:**

Display: 1" (24.5mm) 6-digit Liquid Crystal Display (LCD)  
Annunciators: Lb, Kg, PC (piece count mode), gross, net, standstill, center of zero, tare, low battery  
Keyboard: 6-key flat membrane panel

**OPERATING TEMPERATURE:**

Legal: 14°F to 104°F (-10°C to 40°C)  
Industrial: 14°F to 122°F (-10°C to 50°C)

**WEIGHT:**

3.13 lb (1.42 kg)

**RATING/MATERIAL:**

NEMA 4X/IP66, stainless steel

**APPROVALS:**

NTEP certified, per H-44, Class III/IIIL, CC# 98-203A1  
Measurement Canada approved, AM-5300, Class III/IIHHD, III at 10,000 Divisions and IIIHD at 20,000 Divisions;  
CE marked, UL & CUL listed

**WARRANTY:**

2-year limited warranty

**DIMENSIONS**

A = 11.04" (280.4 mm)	E = 1.62" (41.1 mm)
B = 9.0" (228.6 mm)	F = 3.24" (82.3 mm)
C = 5.52" (140.2 mm)	G = 4.09" (103.9 mm)
D = 6.42" (163.1 mm)	H = 3.0" (76.2 mm)

