

IQ plus® 390-DC Battery Powered Digital Weight Indicator



Measurement
Canada
Approved



ANOTHER **REVOLUTION™** SOLUTION

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" (24.5mm), 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
- 46030 Revolution™ Scale Software*
- 48820 Additional operating manual

* Revolution can be downloaded for FREE from the distributor section of our web site at www.rlws.com



POWER:

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

POWER CONSUMPTION:

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

FULL SCALE INPUT SIGNAL:

Up to 17mV

EXCITATION VOLTAGE:

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

SENSE AMPLIFIER:

Differential amplifier with 4- and 6-wire sensing

INPUT RANGE:

-2.5 mV — 22.5 mV or \pm .5 mV/V — 4.5 mV/V

SENSITIVITY:

0.3 μ V/graduation minimum
1.5 μ V/grad recommended

INPUT IMPEDANCE:

200 M Ω

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/ $^{\circ}$ C, maximum

SPAN STABILITY:

4.0 ppm/ $^{\circ}$ C, maximum

CALIBRATION METHOD:

Software, constants stored in EEPROM

COMMON MODE VOLTAGE:

2.5 \pm .25 VDC

INPUT OVERLOAD:

\pm 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:

14 $^{\circ}$ F to 104 $^{\circ}$ F/-10 $^{\circ}$ C to 40 $^{\circ}$ C (legal)

14 $^{\circ}$ F to 122 $^{\circ}$ F/-10 $^{\circ}$ C to 50 $^{\circ}$ C (industrial)

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 IIHHD at 20,000 Divisions;

CE marked, UL & CUL listed

WARRANTY:

Two year limited warranty

DIMENSIONS

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

