

## 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 a 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 calibration and 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 350-ohm load cells. It also incorporates RATTLE-TRAP® 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

**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:**

14° to 104°F/-10° to 40°C (legal)

14° to 122°F/-10° to 50°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 IIIHD at 20,000 Divisions;  
CE pending, 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)   |

