

**IQ plus® 390-DC** Battery Powered Digital Weight Indicator**STANDARD FEATURES**

- NEMA 4X/IP66-rated stainless steel enclosure
- Large 1 in (24.5 mm), six-digit Liquid Crystal Display (LCD)
- Six 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 230VAC power
- Configurable standby mode that saves battery life
- RATTLETRAP® three-stage digital filtering
- Piece count mode

**APPROVALS**

Measurement  
Canada  
Approved

**SPECIFICATIONS****Power:**

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

Power consumption: (Estimated battery life)  
100 mA (100 hours with 4 x 350Ω load cells),  
25 mA typical (300 hours with 1 load cell)

**Excitation Voltage:**

5VDC, 4 x 350Ω or 8 x 700Ω load cells

**Analog Signal Input Range:**

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

**Analog Signal Sensitivity:**

0.3 μV/graduation minimum  
1.5 μV/grad recommended

**Resolution:**

Internal resolution: 1 million counts  
Display resolution: 100,000dd  
Counting capacity: 100,000

**Measurement Rate:**

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

**System Linearity:**

Within 0.01% of full scale

**Serial Communications:**

EDP/Printer port: Full duplex RS-232

**Display:**

1.0 in (24.5 mm) 6-digit Liquid Crystal Display (LCD),  
7 segment, digits

**Circuit Protection:**

RFI, EMI, ESD protection

**Status Annunciators:**

Designators for: center of zero, standstill, gross, net,  
lb, kg, piece count

**Keyboard:**

6-key flat membrane panel, tactile feel

**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 lb (1.4 kg)

**Rating/Material:**

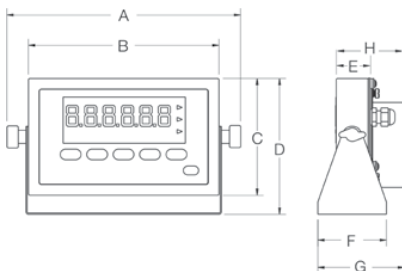
NEMA 4X/IP66, stainless steel

**Warranty:**

Two-year limited warranty

**Approvals:**

NTEP CC 98-203, Class III/IIIL 10,000d  
Measurement Canada AM-5300, Class III/IIHD,  
III 10,000d and IIIHD 20,000d  
CE marked  
UL & CUL listed

**DIMENSIONS**

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

**IQ plus® 390-DC** Battery Powered Digital Weight Indicator**PART NUMBER/PRICE**

PART #	DESCRIPTION	WEIGHT	PRICE
48815	IQ plus 390-DC battery powered with 115VAC wall adapter†	6 lb	Consult
50064	IQ plus 390-DC battery powered with 230VAC wall adapter††	6 lb	Consult
66727	IQ plus 390-DC CE marked (voltage adapter sold separately)	6 lb	Consult
53629	IQ plus 390-DC with 115 VAC wall adapter with quick connect†	6 lb	Consult
53634	IQ plus 390-DC with 230 VAC wall adapter with quick connect††	6 lb	Consult

**OPTIONS/ACCESSORIES**

PART #	DESCRIPTION	PRICE
65738	Livestock weighing option, AW 1.02 (not NTEP Certified)	Consult
77925	Revolution® scale software*	Consult
48820	Additional operating manual	Consult
92777	Filter, PreVent™ vent kit	Consult
91895	Quick Connect, female connector and cable, 17 in	Consult
53640	Quick Connect, male connector and cable, 20 ft	Consult
<b>Primary Component Parts</b>		
49978	Power supply, 115VAC	Consult
130185	Power supply, 230VAC (2-pin Europe)	Consult
48790	Overlay membrane panel	Consult
49954	Board assembly	Consult

\* Revolution can be downloaded for FREE at [www.ricelake.com](http://www.ricelake.com)



†† CEE 7/7 plug



† NEMA 5-15 plug

# IQ plus® 590-DC Battery Powered Digital Weight Indicator



## STANDARD FEATURES

- Full numeric keypad
- Keyboard entry of piece weight, tare weight, calibration and sample size
- Display tare button
- Powered by 6 "C" cell alkaline batteries for complete portability (batteries not included)
- Three 300-character print ticket formats
- Power for four 350Ω load cells or eight 700Ω load cells
- Supports 4- and 6-wire load cell connections
- EDP port for full duplex, RS-232 communications
- NEMA 4X/IP66-rated stainless steel enclosure
- Large 1 in (24.5 mm), six-digit Liquid Crystal Display (LCD)
- AC adapter for 115 or 230VAC power
- Configurable standby mode to prolong battery life
- RATTLETRAP™ three-stage digital filtering
- Configurable units multiplier
- Configurable analog-to-digital measurement rate
- Self-resetting thermal fuse

## APPROVALS



Measurement  
Canada  
Approved



## SPECIFICATIONS

### Power:

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

### Power Consumption:

100 mA (100 hours with 4 load cells)  
25 mA (300 hours with 1 load cell)

### Excitation Voltage:

5VDC, 4 x 350Ω or 8 x 700Ω load cells

### Analog Signal Input Range:

-2.5 mV – 22.5 mV

### Analog Signal Sensitivity:

0.3 μV/graduation minimum  
1.5 μV/grad recommended

### Resolution:

Internal resolution: 1 million counts  
Display resolution: 100,000 dd

### Counting Capacity:

100,000 pieces

### Measurement Rate:

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

### System Linearity:

Within 0.01% of full scale

### Serial Communications:

EDP/Printer port: Full duplex RS-232

### Display:

1 in (24.5 mm) 6-digit Liquid Crystal Display (LCD)

### Circuit Protection:

RFI, EMI, ESD protection

### Annunciators:

Units (lb/kg), piece count mode (PC), gross, net, standstill, center of zero, tare, low battery

### Keyboard:

19-key flat membrane panel, tactile feel

### 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:

6.5 lb (2.95 kg)

### Rating/Material:

NEMA 4X/IP66, stainless steel

### Warranty:

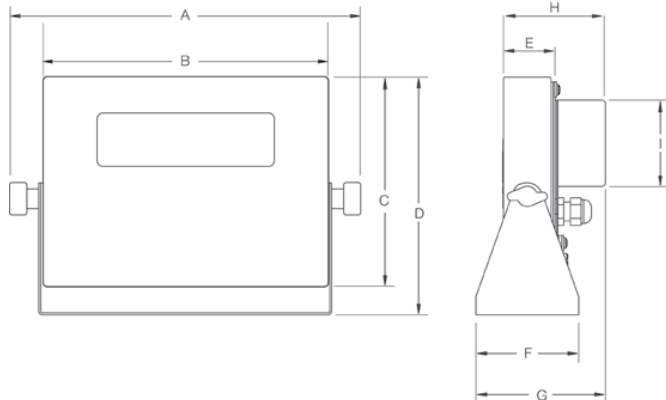
Two-year limited warranty

### Approvals:

NTEP CC 98-203, Class III/IIIL 10,000d  
Measurement Canada AM-5300, Class III at 10,000d,  
Class IIIHD 20,000d  
CE marked  
UL & C-UL listed

## DIMENSIONS

A	11.0 in (280 mm)	F	3.2 in (82 mm)
B	9.0 in (229 mm)	G	4.1 in (104 mm)
C	6.5 in (166 mm)	H	2.9 in (73 mm)
D	7.5 in (190 mm)	I	2.9 in (73 mm)
E	1.6 in (41 mm)		



**IQ plus® 590-DC** Battery Powered Digital Weight Indicator**PART NUMBER/PRICE**

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
52486	IQ plus 590-DC, battery powered w/115VAC wall adapter†	6.5 lb	Consult
52485	IQ plus 590-DC battery powered w/230VAC wall adapter††	6.5 lb	Consult
66728	IQ plus 590-DC, CE marked (voltage adapter sold separately)	6.5 lb	Consult
53630	IQ plus 590-DC with 115 VAC wall adapter with quick connect	6.5 lb	Consult
53633	IQ plus 590-DC with 230 VAC wall adapter with quick connect	6.5 lb	Consult

**OPTIONS/ACCESSORIES**

PART #	DESCRIPTION	PRICE
77925	Revolution® scale software*	Consult
51778	Additional operating manual	Consult
83566	Clear protective overlay (package of five)	Consult
92777	Filter, PreVent™ vent kit	Consult
<b>Primary Component Parts</b>		
49978	Power supply, 115VAC	Consult
130185	Power supply, 230VAC (2-pin Europe)	Consult
51972	Overlay membrane panel	Consult
52469	Board assembly	Consult

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† NEMA 5-15 plug