

## 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



### 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, 33/4 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:

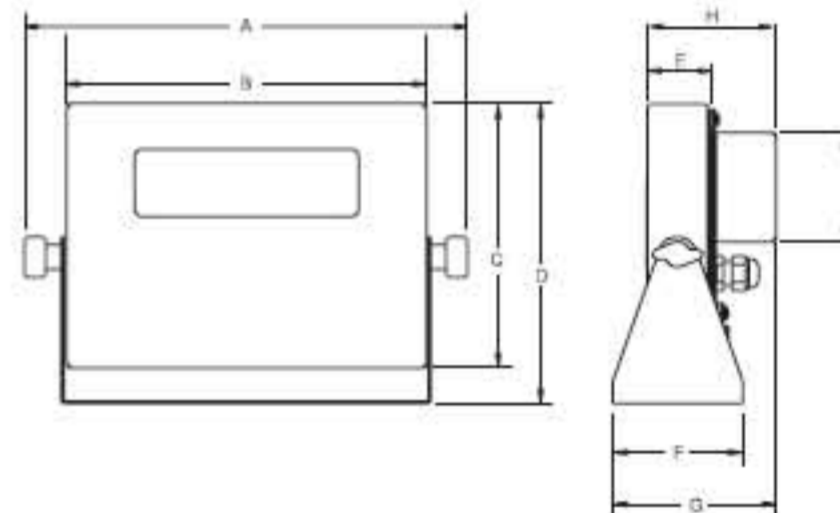
NEMA 4X/IP66, stainless steel

#### APPROVALS:

NTEP - certified at 10,000 Divisions, Class III/IIIL, CC# 98-203A2;  
Measurement Canada approved, AM-5300, Class III at 10,000 Divisions, Class IIIHD at 20,000 Divisions;  
CE marked,  
UL & C-UL listed

#### WARRANTY:

Two-year limited warranty



#### DIMENSIONS

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



## IQ plus® 590-DC

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

### OPTIONS/ACCESSORIES

77925.....	Revolution™ III scale software* .....		Consult factory
51778.....	Additional operating manual.....		Consult factory
83566.....	Clear protective overlay (package of five).....		Consult factory
92777.....	Filter, PreVent™ vent kit.....		Consult factory

### Primary Component Parts

49978.....	Power supply, 115 VAC .....		Consult factory
49977.....	Power supply, 230 VAC (2-pin Europe) .....		Consult factory
51972.....	Overlay membrane panel .....		Consult factory
52469.....	Board assembly .....		Consult factory

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

