

# IQ

P L U S

## 590-DC

BATTERY POWERED  
DIGITAL WEIGHT INDICATOR



**RICE LAKE WEIGHING SYSTEMS**

Commitment Beyond Measurement™

[www.rlws.com](http://www.rlws.com)

# IQ 590-DC BATTERY POWERED DIGITAL WEIGHT INDICATOR



## The IQ plus® 590-DC... Easy Operation Anywhere, Anytime

Take full advantage of your weighing system with the IQ plus 590-DC. Featuring C-cell battery power and a full numeric keypad, this handy unit makes setup and operation a snap! From tare entry to counting, the IQ plus 590-DC allows numeric entry directly from the keypad, saving time by eliminating the need to scroll and toggle.

The IQ plus 590-DC has a superior battery life of over 300 hours, meaning weeks or months of worry-free operation! And with a stainless steel NEMA 4X/IP66 enclosure, you can rely on top performance in any environment. It's the perfect solution for outdoor weighing systems, portable warehouse scales, and material handling applications.



The IQ plus 590-DC's prominent LCD display shows up to six numerals in large one-inch digits for easy character recognition. When left idle, the unit prolongs battery life by using a configurable standby mode. This unique indicator even serves as a portable counting scale in piece count mode with sample size or average piece weight entry. Plus, an AC adapter is provided to prolong battery life when power is available.

In environments where vibration is a concern, the IQ plus 590-DC includes RATTLETRAP® three-stage digital filtering and selectable measurement rates, ensuring accurate weighments anywhere, anytime.

### The Ultimate in Portability

The IQ plus 590-DC easily mounts where you need it and with the added benefit of battery operation, this digital weight indicator can go almost anywhere.



### Standard Features

- Full numeric keypad
- Keypad entry of piece weight, tare weight, calibration, and sample size
- Display tare button
- Portability with 6 C-cell alkaline batteries
- 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" (24.5mm), six-digit LCD display
- AC adapter for 115 or 230 VAC 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

### Specifications

<b>Power:</b>	9 VDC with 6 C-cell alkaline batteries or AC adapter
<b>Power Consumption:</b>	<100mA
<b>Display:</b>	1" (24.5mm) 6-digit LCD display
<b>Annunciators:</b>	Units (lb/kg), piece count mode (PC), gross, net, standstill, center of zero, tare, low battery
<b>Keyboard:</b>	19-key flat membrane panel
<b>Full Scale Input Signal:</b>	Up to 17mV
<b>Excitation Voltage:</b>	5 ± 0.25 VDC, 4 x 350Ω or 8 x 700Ω load cells
<b>Analog Signal Sensitivity:</b>	0.3 μV/grad min 1.5 μV/grad recommended
<b>Display Resolution:</b>	100,000 dd
<b>Counting Capacity:</b>	100,000 pieces
<b>Measurement Rate:</b>	30, 15, 7½, 3¼ per second
<b>System Linearity:</b>	Within 0.01% of full scale
<b>Calibration Method:</b>	Front panel or software, constants stored in EEPROM
<b>Common Mode Voltage:</b>	2.5 ± .25 VDC
<b>Input Overload:</b>	± 12 V continuous, static discharge protected
<b>Circuit Protection:</b>	RFI, EMI, ESD protection on inputs and interfaces
<b>Digital Filter:</b>	Rattletrap® software filtering
<b>Serial Communications:</b>	EDP/Printer Port, Full duplex RS-232
<b>Operating Temperature:</b>	-10° to 40°C/14° to 104°F (legal) -10° to 50°C/14° to 122°F (industrial)
<b>Dimensions:</b>	9.0" x 6.5" x 3.0" (229mm x 166mm x 76mm [includes battery compartment cover, does not include stand or knobs])
<b>Shipping Weight:</b>	6.5 lb (2.95 kg)
<b>Finish:</b>	NEMA 4X/IP66, stainless steel

### Approvals



CCH 98-203A1 AM 5300  
 $n_{max}=10,000$   $n_{max}=20,000$   
 Class III/III.L Class III/III.HD

Your Rice Lake Weighing Systems distributor is:

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