

IQ

P L U S

590-DC

BATTERY POWERED
DIGITAL WEIGHT INDICATOR



RICE LAKE WEIGHING SYSTEMS

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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

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

Approvals



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

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