Indicators/Remote Displays

IQ plus® 590-DC Battery Powered Digital Weight Indicator



PART # DESCRIPTION
52486 IQ plus 590-DC, battery powered with
115 VAC wall adapter
52485 IQ plus 590-DC, battery powered with
230 VAC wall adapter
66728 IQ plus 590-DC, battery powered, CE marked
(voltage adapter sold separately)

Take full advantage of your weighing system with the new 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 features piece count mode with sample size or average piece weight entry, allowing it to serve as part of a portable counting scale system. 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.

Applications

- · Washdown environments
- · Portable scales
- Warehousing
- · Floor and bench scales
- Agricultural
- · Portable counting

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)
- Revolution[™] Scale Software support
- 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 Liquid Crystal Display (LCD)
- 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

Options/Accessories

46030 Revolution™ Scale Software* 51778 Additional operating manual

* Revolution can be downloaded for FREE from the distributor section of our web site at www.rlws.com

IQ plus 590-DC Specifications

POWER:

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

POWER CONSUMPTION:

<100mA

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

SENSITIVITY:

 $0.3~\mu\text{V/graduation minimum} \\ 1.5~\mu\text{V/grad recommended}$

INPUT IMPEDANCE:

 $200 M\Omega$

INTERNAL RESOLUTION:

1,000,000 counts

DISPLAY RESOLUTION:

100,000 dd

COUNTING CAPACITY:

100,000 pieces

MEASUREMENT RATE:

30, 15, 71/2, 33/4 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:

 $2.5 \pm .25 \text{ VDC}$

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

Keyboard: 19-key flat membrane panel

OPERATING TEMPERATURE:

14°F to 104°F/-10°C to 40°C (legal) 14°F to 122°F/-10°C to 50°C (industrial)

WEIGHT:

6.5 lb (2.95 kg)

RATING/MATERIAL:

NEMA 4X/IP66, stainless steel

APPROVALS:

NTEP certified, per H-44 at 10,000 Divisions, Class III/IIIL, CC# 98-203A1; Measurement Canada approved, AM-5300, Class III at 10,000 Divisions, Class IIIHD at 20,000 Divisions; CE marked, UL & CUL listed

WARRANTY:

Two year limited warranty

DIMENSIONS

A =	11.0"	(280mm)	E =	1.6"	(41mm)
B =	9.0"	(229mm)	F =	3.2"	(82mm)
C =	6.5"	(166mm)	G =	4.1"	(104mm)
D =	7.5"	(190mm)	H =	3.0"	(76mm)



