

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" (24.5 mm), 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

Approvals



Specifications

POWER:

9 VDC, provided by 6 C-cell alkaline batteries or AC adapter
Power consumption: <100mA

EXCITATION VOLTAGE:

5 VDC, 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, 7½, 3¼ per second

SYSTEM LINEARITY:

Within 0.01% of full scale

SERIAL COMMUNICATIONS:

EDP/Printer port: Full duplex RS-232

DISPLAY:

1" (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:

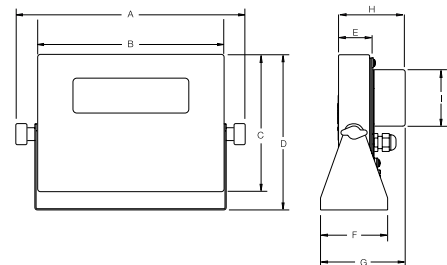
NEMA 4X/IP66, stainless steel

APPROVALS:

NTEP - certified at 10,000 Divisions, Class III/IIIL, CC# 98-203A1;
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

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

IQ plus® 590-DC

Indicators

| PART # | DESCRIPTION | EST. SHIP WEIGHT | PRICE |
|--------------------------------|---|------------------|----------|
| 52486 | IQ plus 590-DC, battery powered w/115 VAC wall adapter [†] | 6.5 lb | \$650.00 |
| 52485 | IQ plus 590-DC battery powered w/230 VAC wall adapter ^{††} | 6.5 lb | 650.00 |
| 66728 | IQ plus 590-DC, CE marked (voltage adapter sold separately) | 6.5 lb | 625.00 |
| Options/Accessories | | | |
| 77925 | Revolution™ III scale software*☒ | | 35.00 |
| 51778 | Additional operating manual.....☒ | | 21.00 |
| 83566 | Clear protective overlay (package of five)..... | | 50.00 |
| 92777 | Filter, PreVent™ vent kit☒ | | 25.00 |
| Primary Component Parts | | | |
| 49978 | Power supply, 115 VAC☒ | | 15.75 |
| 49977 | Power supply, 230 VAC (2-pin Europe)..... | | 26.00 |
| 51972 | Overlay membrane panel☒ | | 57.00 |
| 52469 | Board assembly.....☒ | | 445.00 |

* Revolution III can be downloaded for FREE at www.ricelake.com



^{††} CEE 7/7 plug pattern



[†] NEMA 5-15