# 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 1in (24.5mm), 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

NTEP  c UL us LISTED  Measurement Canada Approved  CE

## SPECIFICATIONS

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

**POWER CONSUMPTION:**
100mA (100 hours with 4 load cells)
25mA (300 hours with 1 load cell)

**EXCITATION VOLTAGE:**
5VDC, 4 x 350Ω or 8 x 700Ω load cells

**ANALOG SIGNAL INPUT RANGE:**
-2.5mV – 22.5mV

**ANALOG SIGNAL SENSITIVITY:**
0.3µV/graduation minimum
1.5µV/grad recommended

**RESOLUTION:**
Internal resolution: 1 million 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

**SERIAL COMMUNICATIONS:**
EDP/Printer port: Full duplex RS-232

**DISPLAY:**
1in (24.5mm) 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)

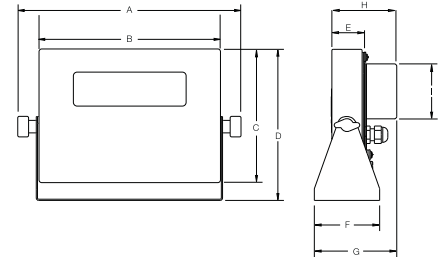**WEIGHT:**
6.5lb (2.95kg)

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