

## 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:

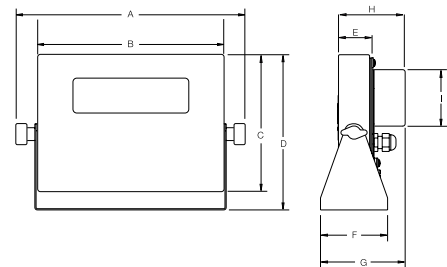
NEMA 4X/IP66, stainless steel

#### 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)	