

IQ plus® 390-DC

Battery Powered Digital Weight Indicator



STANDARD FEATURES

- NEMA 4X/IP66-rated stainless steel enclosure
- Large 1 in (24.5mm), six-digit Liquid Crystal Display (LCD)
- Six button operation
- Power for four 350Ω load cells or eight 700Ω load cells
- Configurable units multiplier
- Supports 4- and 6-wire load cell connections
- EDP port for full duplex, RS-232 communications
- Powered by 6 "C" cell alkaline batteries for complete portability (batteries not included)
- AC adapter for 115 or 230VAC power
- Configurable standby mode that saves battery life
- RATTLETRAP® three-stage digital filtering
- Piece count mode

APPROVALS



SPECIFICATIONS

POWER:

9VDC, provided by 6 "C" cell alkaline batteries or AC adapter
 Power consumption: (Estimated battery life)
 100mA (100 hours with 4 x 350Ω load cells),
 25mA typical (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 or -5mV/V – 4.5mV/V

ANALOG SIGNAL SENSITIVITY:

0.3 μV/graduation minimum
 1.5 μV/grad recommended

RESOLUTION:

Internal resolution: 1 million counts
 Display resolution: 100,000dd
 Counting capacity: 100,000

MEASUREMENT RATE:

30, 15, 7 1/2, 3 3/4 per second

SYSTEM LINEARITY:

Within 0.01% of full scale

SERIAL COMMUNICATIONS:

EDP/Printer port: Full duplex RS-232

DISPLAY:

1.0 in (24.5mm) 6-digit Liquid Crystal Display (LCD), 7 segment, digits

CIRCUIT PROTECTION:

RFI, EMI, ESD protection

STATUS ANNUNCIATORS:

Designators for: center of zero, standstill, gross, net, lb, kg, piece count

KEYBOARD:

6-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:

3 lb (1.4 kg)

RATING/MATERIAL:

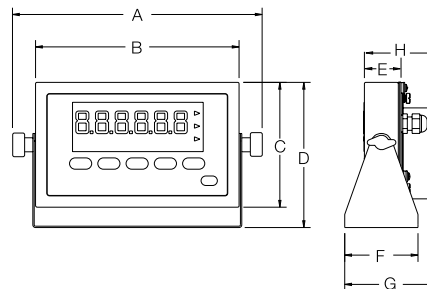
NEMA 4X/IP66, stainless steel

APPROVALS:

NTEP-at 10,000 Divisions,
 Class III/IIIL, CC# 98-203A2
 Measurement Canada approved, AM-5300,
 Class III/IIHHD, III at 10,000 Divisions and IIIHD at
 20,000 Divisions
 CE marked
 UL & CUL listed

WARRANTY:

Two-year limited warranty



DIMENSIONS

A	11.04 in (280.4 mm)	E	1.62 in (41.1 mm)
B	9.0 in (228.6 mm)	F	3.24 in (82.3 mm)
C	5.52 in (140.2 mm)	G	4.09 in (103.9 mm)
D	6.42 in (163.1 mm)	H	3.0 in (76.2 mm)

IQ plus® 390-DC

Battery Powered Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
48815.....	IQ plus 390-DC battery powered with 115 VAC wall adapter†	6 lb	Consult
50064.....	IQ plus 390-DC battery powered with 230 VAC wall adapter††	6 lb	Consult
66727.....	IQ plus 390-DC CE marked (voltage adapter sold separately)	6 lb	Consult
53629.....	IQ plus 390-DC with 115 VAC wall adapter with quick connect	6 lb	Consult
53634.....	IQ plus 390-DC with 230 VAC wall adapter with quick connect	6 lb	Consult

OPTIONS/ACCESSORIES

65738	..... Livestock weighing option, AW 1.02 (not NTEP Certified)	.....	Consult
77925	..... Revolution™ scale software*	.....	Consult
48820	..... Additional operating manual	.....	Consult
83565	..... Clear protective overlay (package of five)	.....	Consult
92777	..... Filter, PreVent™ vent kit	.....	Consult
91895	..... Quick Connect, female connector and cable, 17 inch	.....	Consult
53640	..... Quick Connect, male connector and cable, 20 feet	.....	Consult

Primary Component Parts

49978	..... Power supply, 115 VAC	.....	Consult
49977	..... Power supply, 230 VAC (2-pin Europe)	.....	Consult
48790	..... Overlay membrane panel	.....	Consult
49954	..... Board assembly	.....	Consult

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



Indicators

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 in (24.5 mm), 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



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, 7 1/2, 33/4 per second

SYSTEM LINEARITY:

Within 0.01% of full scale

SERIAL COMMUNICATIONS:

EDP/Printer port: Full duplex RS-232

DISPLAY:

1 in (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:

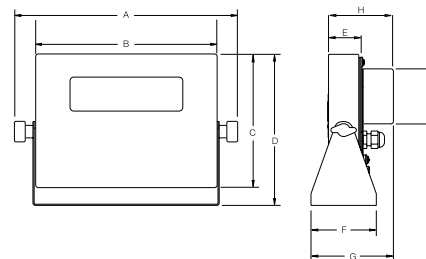
NEMA 4X/IP66, stainless steel

APPROVALS:

NTEP - certified at 10,000 Divisions, Class III/IIIL, CC# 98-203A2;
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	11.0 in (280 mm)	F	3.2 in (82 mm)
B	9.0 in (229 mm)	G	4.1 in (104 mm)
C	6.5 in (166 mm)	H	2.9 in (73 mm)
D	7.5 in (190 mm)	I	2.9 in (73 mm)
E	1.6 in (41 mm)		

IQ plus® 590-DC

Battery Powered Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
52486.....	IQ plus 590-DC, battery powered w/115VAC wall adapter†	6.5 lb	Consult
52485.....	IQ plus 590-DC battery powered w/230VAC wall adapter††	6.5 lb	Consult
66728.....	IQ plus 590-DC, CE marked (voltage adapter sold separately)	6.5 lb	Consult
53630.....	IQ plus 590-DC with 115 VAC wall adapter with quick connect.....		Consult
53633.....	IQ plus 590-DC with 230 VAC wall adapter with quick connect.....		Consult

OPTIONS/ACCESSORIES

77925.....	Revolution™ scale software*		Consult
51778.....	Additional operating manual.....		Consult
83566.....	Clear protective overlay (package of five).....		Consult
92777.....	Filter, PreVent™ vent kit		Consult

Primary Component Parts

49978.....	Power supply, 115VAC		Consult
49977.....	Power supply, 230VAC (2-pin Europe)		Consult
51972.....	Overlay membrane panel		Consult
52469.....	Board assembly		Consult

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

