

IQ plus[®] 355 Digital Weight Indicator

**Super Bright
LED Display!**



ANOTHER **REVOLUTION**™ SOLUTION



Measurement
Canada
Approved



PART #	DESCRIPTION
51968 IQ plus 355, 115 VAC
66729 IQ plus 355, 230 VAC, CE marked/OIML approved

The IQ plus 355 is a product built to outlast and outperform any indicator in its class.

Providing the ultimate protection is an all stainless steel NEMA 4X/IP66 washdown enclosure that means extra-long life even in the harshest conditions. This cost-effective indicator also reduces operator error and accelerates productivity with an extra-large 6-digit LED display.

The IQ plus 355 drives up to eight 350-ohm load cells for use in multi-cell applications such as truck scales. It also features three-stage digital filtering, virtually eliminating vibration interference and providing stable, accurate weight data regardless of the environment. A simple five-button front panel provides easy operation, and full calibration and configuration.

Two independent communication ports provide full EDP and print ticket programmability—a feature that is enhanced by Revolution™ Scale Software. This unique Windows®-based software allows the IQ plus 355 to easily program up to two 300-character ticket formats. In addition, the two standard serial ports allow it to be remotely configured and calibrated using Revolution Scaleware.

Applications

- Straight weighing
- Agricultural
- Truck scales
- Floor and bench scales
- Tank weighing

Standard Features

- Large .8" (20.3mm) Light Emitting Diode (LED) Display
- Configurable analog to digital measurement rate
- Power for eight 350Ω load cells or sixteen 700Ω load cells
- Primary/secondary units configuration: lb, kg, ounces, short tons, metric tons, grams, or none
- NEMA 4X/IP66 stainless steel washdown enclosure
- 5-button operation
- 2 independent communication ports: (1) full duplex, (1) unidirectional or active 20 mA current loop
- Standardized EDP command sets
- Programmable ticket formats up to two 300-character printouts
- Full front-panel digital calibration and configuration
- Universal mounting stand
- Three-stage digital filtering
- Consecutive transaction numbering

Options/Accessories

- 43381 Analog output: selectable 0-10V, 4-20 mA
- 52948 Panel mount kit
- 46030 Revolution™ Scale Software
- 51980 Additional operating manual



IQ plus 355 print ticket examples

LINE VOLTAGES:

115 or 230 VAC

FREQUENCY:

50 or 60 Hz

POWER CONSUMPTION:

70 mA @ 115 VAC (8W)
35 mA @ 230 VAC (8W)

FUSING:

2 x 160 mA (115 VAC) or 2 x 80 mA (230 VAC)
Slo-Blo radial lead subminiature fuses

FULL SCALE INPUT SIGNAL:

4.5 mV/V (max)

LOAD CELL EXCITATION:

10 ± 0.5 VDC, 8 x 350Ω load cells or 16 x 700Ω load cells

SENSE AMPLIFIER:

Differential amplifier with 4- and 6-wire sensing

ANALOG SIGNAL INPUT RANGE:

0.6 mV/V - 4.5 mV/V

ANALOG SIGNAL SENSITIVITY:

0.3 μV/graduation minimum,
1.5 μV/grad recommended

INPUT IMPEDANCE:

200 MΩ, typical

NOISE (REF TO INPUT):

0.3 μV p-p with digital filters at 4-4-4

INTERNAL RESOLUTION:

308,000 internal graduations

DISPLAY RESOLUTION:

100,000 displayed graduations

MEASUREMENT RATE:

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

FILTERING:

RATTLETRAP® 3-level software filtering

SYSTEM LINEARITY:

Within 0.01% of full scale

ZERO STABILITY:

150 nV/°C, maximum

SPAN STABILITY:

3.5 ppm/°C, maximum

CALIBRATION METHOD:

Software, constants stored in EEPROM

COMMON MODE VOLTAGE:

.95 V, referred to earth

INPUT OVERLOAD:

± 12 V continuous, static discharge protected

ANALOG OUTPUT:

Voltage output: 0-10 VDC
Load resistance: 1 KΩ minimum
Current output: 4-20 mA
External loop resistance: 500Ω maximum

DIGITAL INPUTS:

2 inputs with 8 functions to select from

DIGITAL FILTERS:

3 filters, software selectable

EDP PORT:

Full duplex RS-232

PRINTER PORT:

Output-only RS-232 or active 20 mA current loop

BOTH PORTS:

9600, 4800, 2400, 1200, 600, 300 bps; 7 or 8 data bits; even, odd or no parity

PRINT OUTPUT STRINGS:

300 character user programmable gross string
300 character user programmable net string

DISPLAY:

0.8" (20.3mm), 6-digit Super Red Light Emitting Diode (LED) display, 7-segment, number digits

ANNUNCIATORS, 4 UNIT DESCRIPTORS

ADDITIONAL SYMBOLS:

Designators for: center of zero, stand still, gross, net center of zero, standstill, lb, kg, oz, g

KEYBOARD:

5-key flat membrane panel

CONSECUTIVE NUMBER:

Selectable start point of "0" or "1" to 999,999

OPERATING TEMPERATURE:

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

WEIGHT:

6.4 lb (2.9 kg)

RATING/MATERIAL:

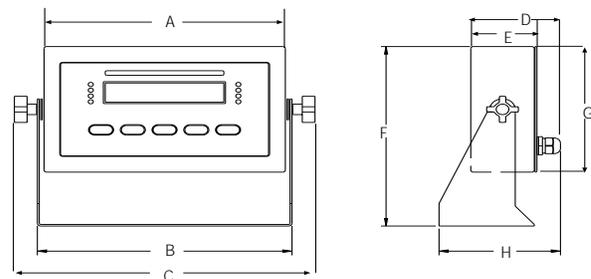
Enclosure: NEMA 4X/IP66, heavy gauge stainless steel

APPROVALS:

NTEP certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 97-130A1; Measurement Canada approved, AM-5213, Class III/IIILD at 10,000 Divisions; UL & CUL listed, CE pending, OIML pending

WARRANTY:

Two year limited warranty



DIMENSIONS

A = 9.50" (241.3mm)	E = 2.75" (69.9mm)
B = 10.02" (254.5mm)	F = 8.57" (217.7mm)
C = 11.80" (299.7mm)	G = 6.00" (152.4mm)
D = 3.67" (93.2mm)	H = 3.85" (97.8mm)