

## IQ plus<sup>®</sup> 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,

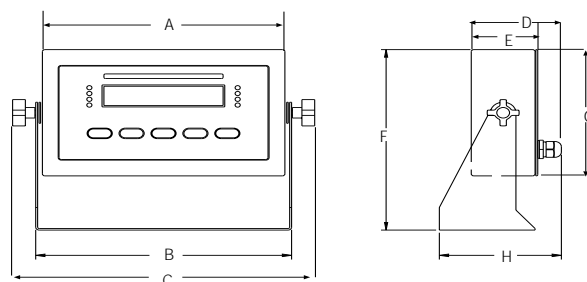
CC# 97-130A1; Measurement Canada approved, AM-5213,

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)