IQ plus® 810HE/810SS Digital Weight Indicator

Measurement Canada Approved

LISTED

ANOTHER REVOLUTION SOLUTION

PART #	DESCRIPTION
36917	HE FRP Enclosure, 115 VAC
36918	HE FRP Enclosure, 230 VAC
36919	HE Dual Channel, 115 VAC
36920	HE Dual Channel, 230 VAC
36921	HE JetPak™, 115 VAC*
36922	HE JetPak™, 230 VAC*
19251	SS NEMA 4X, 115 VAC
19252	SS NEMA 4X, 230 VAC
19263	SS Dual Channel, 115 VAC
19264	SS Dual Channel, 230 VAC
22174	SS JetPak™, 115 VAC*
22175	SS JetPak™, 230 VAC*

** Not Legal-For-Trade U.S./Canada*

IQ plus 810SS stainless steel

The IQ plus 810... never before has this level of power been available in a digital weight indicator. Its unique hybrid digital circuitry provides faster, more accurate and more flexible performance than conventional technology. It provides power for 16 350-ohm load cells on up to four separate scales, simplifying multi-scale control*. For use in hostile environments, the NEMA 4X FRP SURVIVOR enclosure ensures superior corrosion and condensation protection, inside or outside. The IQ plus 810SS NEMA 4X stainless steel is also available. The bright blue/green display is unmistakable even in poor visibility conditions. An optional LED bar graph enhances software capabilities and interactive operation.

The IQ plus 810 offers six different operating selections for truck scale management. The large internal memory holds up to 200 six-digit ID numbers and truck tares. Selectable automatic ticket printing and traffic reporting eliminate the need for a scale house computer.

Our exclusive RATTLETRAP® vibration control eliminates interference from agitators, mixers, blenders, fork truck traffic and other sources of industrial environment vibration. Now you can achieve stable, accurate weight information regardless of motion on or around your scale.

The IQ plus 810 is a batching Automation Control Center™. Its unique programmable setpoint software contains a comprehensive array of batch process possibilities. It's even self-correcting, learning as it works to assure your process integrity. The standard configuration includes 20 setpoint steps, 4 digital outputs and 3 digital inputs, providing more basic power than many custom controllers. With the addition of JetPak™, weigh data processing is performed at least five times faster than with conventional meters. At an impressive rate of 100 updates per second, it's ideal for high-speed bag filling, checkweighing and multi-step batching operations. An array of additional hardware and software options offer virtually unlimited solutions for your complex operations.

Applications

- Multi-scale operation, up to four scales*
- Sophisticated batching systems
- Outdoor and corrosive environments
- Perishable goods industry
- High-speed bag filling and checkweighing*

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) wall mount enclosure/NEMA 4X stainless steel wall mount enclosure
- Rubber-booted SURVIVOR watertight switches (IQ plus 810HE)
- Bright, bold Vacuum Fluorescent Display (VFD)
- Full keyboard for setpoint or fixed tare entry
- Time and date
- 20 updates/second, nominal
- Advanced digital filtering and RATTLETRAP® vibration control
- 20 programmable setpoint steps
- Multi-channel accumulators
- 3 digital inputs, TTL or hard contact closure; 4 TTL digital outputs, expandable to16
- Multi-functional 200 ID Truck in/out program
- Selectable print data and format via EDP port or front panel
- 2 communication ports: (1) EDP port, full duplex RS-232 or 20 mA optional; (1) printer port, simplex RS-232/20 mA current loop
- Multi-scale control expandable to 4 scale inputs, with individual scale setup*
- Power for up to sixteen 350Ω load cells on single or multiple channels*
- Models with JetPak feature 100 Hz A/D for 100 updates per second, single channel unit*

Options/Accessories

46030	Revolution™ Scale Software
61138	Dual Range option
35888	Allen-Bradley Remote I/O, 115 VAC (external)
36593	Allen-Bradley Remote I/O, 230 VAC (external)
49974	PROFIBUS® DP Interface, 115 VAC (external)
49975	PROFIBUS® DP Interface, 230 VAC (external)
19363	48-segment LED bar graph module
40386	Dual load cell input module (3rd and 4th scale)
40385**	Expansion board (keyboard connection only)
19357**	Analog output module, 0-10 VDC/4-20 mA
19372	RS-485 serial communication
19374	20 mA full duplex EDP port
19362	12-channel digital setpoint output module
16418	5 VDC power supply for digital output
19368	Batching start/stop switch box
19375	Supervisory setpoint configuration access switch
19365	4-channel relay rack, relays sold separately
19373	16-channel relay rack, relays sold separately (Requires Part #19362 setpoint expander board)

I/O relay modules sold separately:

15969	10-32 VDC Input relay module (N/O)
15970	Dry contact 100 VDC/1.5A output (N/O)
22848	Dry contact 100 VDC/1.5A output (N/C)
15971	115 VAC Output relay module (N/O)
15972	115 VAC Input relay module (N/O)
22847	115/230 VAC Output relay module (N/C)
36632	115/230 VAC Output relay module (N/O)
36631	230 VAC Input relay module (N/O)
16478	Quencharc arc supressor

42100 ..... Additional operating manual (Version 3)

** This feature is available on specific models. Optional hardware/software may be required to add this feature to existing field units.*

*** One analog module per channel (dual scale only). Second analog module must be installed on expansion board.*

(Specifications on back)

LOAD CELL EXCITATION:
10 ± 0.5 VDC, 16 x 350Ω load cells (on up to 4 channels)*

LOAD CURRENT:
460 mA maximum (16 x 350Ω load cells)

INTERCONNECTION CABLE REQUIREMENTS:
6-wire selective (jumpers required on sense leads for 4-wire)

ANALOG SIGNAL INPUT RANGE:
0.6 mV/V - 3.9 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 microvolts/graduation minimum
Legal-for-trade recommended minimum 1 microvolt/graduation

INPUT OVERLOAD:
± 12V continuous, static discharge protected

CONVERSION RATE AT FULL SCALE:
20/second, typical (standard resolution)
10/second, typical (high resolution). Added channels reduce conversion rate per channel*

RESOLUTION:
Selectable up to 100,000 displayed graduations
Selectable up to 740,000 graduations internal

UNDERRANGE BLANKING:
-2 mV signal nominal

DISPLAY:
Large .55" (14.0mm) 7-digit, 14-segment blue/green Vacuum Fluorescent Display (VFD)

LB/KG SWITCHING:
Front panel pushbutton

FRONT-PANEL CONTROL SWITCHES:
Zero, Net/Gross, Tare, Units, Print, Disp Accum, Disp R.O.C., Disp Tare, Time/Date, New ID, Base #, Set Point, Clear

FRONT-PANEL ANNUNCIATORS:
Lb, Kg, R.O.C., Accum, Push Tare, Keyed Tare, Motion, Center of Zero, Gross, Net

SERIAL OUTPUT:
"EDP" port, full duplex RS-232 or 20 mA optional
"Printer" port, simplex RS-232 and 20 mA current loop

DIGITAL INPUTS:
3 inputs, TTL or switch closure, active low

DIGITAL OUTPUTS:
4 outputs standard, TTL active low, expandable to 16

SETPOINTS:
20 fully-programmable setpoint steps

ANALOG FILTERING:
Software selectable: 2, 8 Hz typical/3 pole, Off (25 Hz)

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MOTION TIME SENSITIVITY:
Fixed at 1 second

POWER:
Line voltages: 115 or 230 VAC, +10%/-15%
Frequency: 50 or 60 Hz
Power consumption: 12 VA with minimum configuration, 30 VA with all options
Fusing: 0.25A SB (UL/CSA) 5x20mm @ 120V operation
0.125A SB (UL/CSA) 5x20mm @ 240V operation

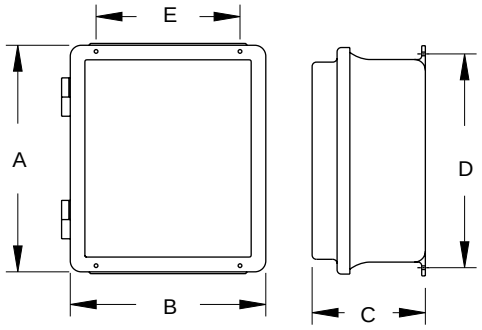
OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
IQ plus 810HE: NEMA 4X FRP wall mount
IQ plus 810SS: NEMA 4X stainless steel

WEIGHT:
IQ plus 810HE: approximately 17.3 lb (7.8 kg)
IQ plus 810SS: approximately 24 lb (10.9 kg)

APPROVALS:
NTEP certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 92-013A2. Measurement Canada approved, AM-4840; UL & CUL listed

WARRANTY:
One year limited warranty



DIMENSIONS

FRP Enclosure	Stainless Steel Enclosure
A = 14.50" (368.3mm)	A = 14.25" (362.0mm)
B = 12.50" (317.5mm)	B = 12.25" (311.1mm)
C = 8.28" (210.3mm)	C = 6.25" (158.8mm)
D = 14.94" (379.4mm)	D = 14.75" (374.6mm)
E = 10.00" (254.0mm)	E = 10.00" (254.0mm)

NOTE: Because A-B Remote I/O and Profibus interface with programs written by non-RLWS parties, please consult factory for latest technical updates before quoting.