

IQ plus® 710 Digital Weight Indicator



Sloped face model shown



Approvals



Standard Features

- Stainless steel NEMA 4X/IP66 washdown enclosure
- Large 0.75" (19 mm) Vacuum Fluorescent Display (VFD) with 16 characters for operator prompting
- Selectable analog to digital measurement rate
- Five-point linearization calibration
- Four macros, 30 steps each, ability to interconnect macros with setpoints (macro can start batch setpoints)
- 8 digital inputs plus eight digital outputs
- 60 16-character/programmable fields for display prompts.
- Power for eight 350Ω load cells or 16, 700Ω load cells
- Expanded 29-key alphanumeric keyboard
- Full alphanumeric keyboard for entering truck ID, numbering, prompts and more
- 300-ID truck in/out programs (six modes), seven characters
- Batching and continuous mode setpoint functions
- Programmable consecutive numbering
- Two communication ports: (1) EDP port, full duplex RS-232 or RS-485, (1) printer port, simplex RS-232 or 20 mA
- Operate, configure, and calibrate via two interfaces: front panel (keyboard & display) or EDP serial command port (RS-232, RS-485)
- Six 300-character programmable output formats, independent transmission to EPD or printer port
- 300-character alphanumeric "title block" for custom printouts
- Completely menu driven
- Angled/sloped keypad for user comfort
- Time and date
- Accumulator

Specifications

POWER:

Line voltages: 115 or 230 VAC
 Frequency: 50 or 60 Hz
 Power consumption: -100 mA @ 115 VAC (11.5W)
 50 mA @ 230 VAC (11.5W)

LOAD CELL EXCITATION:

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

ANALOG SIGNAL INPUT RANGE:

-0.5 – 4.5 mV/V (max)

RESOLUTION:

Internal resolution: - More than 1 million internal graduations
 External resolution: -100,000 displayed graduations

MEASUREMENT RATE:

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

ANALOG SIGNAL SENSITIVITY:

.3μV with digital filters at 4

SERIAL PORTS:

Two ports, RS-232, full duplex. EPD Port has an additional RS-485 transceiver; RS-485 is used if an RS-485 address is configured. Printer Port simplex also has a 20 mA active transceiver

CIRCUIT PROTECTION:

RFI, EMI, ESD protection

SYSTEM LINEARITY:

Within 0.01% of FS

DIGITAL INPUTS/OUTPUTS:

8 digital inputs, 8 digital open collector outputs

DISPLAY:

Large 0.75" (19 mm) Vacuum Fluorescent Display (VFD)
 7-digit, 2 unit descriptors, 16 5x7 VFD dot matrix secondary display

KEYBOARD:

Full 29-key alphanumeric flat membrane panel

OPERATING TEMPERATURE:

Legal: 14°F to 104°F (-10°C to 40°C)
 Industrial: 14°F to 122°F (-10°C to 50°C)

RATING/MATERIAL:

NEMA 4X/IP66, stainless steel

WEIGHT:

Sloped: 7.4 lb (3.3 kg) -Flat: 7.8 lb (3.5 kg)

APPROVALS:

NTEP - certified at 10,000 Divisions, Class III/IIIL, CC#98-081;

Measurement Canada approved, AM-5253, Class III/IIHHD, III at 10,000 Divisions and IIIHD at 20,000 Divisions;

OIML approved, TC5678 rev. 1;

CE marked,

UL & C-UL listed

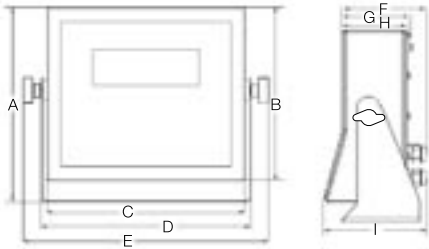
WARRANTY:

Two-year limited warranty

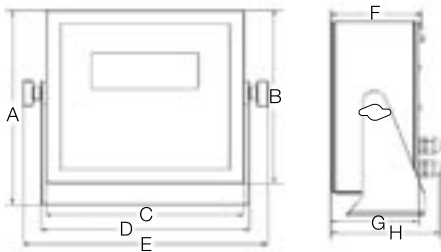
(Specifications continued on next page)

Specifications (continued)

SLOPED FACE



FLAT FACE



DIMENSIONS

Sloped face

A = 9.88" (250 mm)
B = 8.38" (212 mm)
C = 9.50" (241 mm)
D = 10.02" (254 mm)
E = 11.78" (299 mm)
F = 4.07" (103 mm)
G = 3.30" (83 mm)
H = 3.15" (80 mm)
I = 4.95" (125 mm)

Flat face

A = 9.88" (250 mm)
B = 8.38" (212 mm)
C = 9.50" (241 mm)
D = 10.02" (254 mm)
E = 11.78" (299 mm)
F = 4.36" (110 mm)
G = 4.25" (107 mm)
H = 5.25" (133 mm)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
44545	IQ plus 710, 115 VAC, sloped face [†]	10 lb	\$950.00
44544	IQ plus 710, 230 VAC, sloped face [†]	10 lb	950.00
45527	IQ plus 710, 115 VAC, flat face, deep enclosure [†]	10 lb	975.00
45528	IQ plus 710, 230 VAC, flat face, deep enclosure [†]	10 lb	975.00
52052	IQ plus 710, 230 VAC, CE marked/OIML approved, sloped face ^{††}	10 lb	950.00
52051	IQ plus 710, 230 VAC, CE marked/OIML approved, flat face, deep enclosure ^{††}	10 lb	975.00

Options/Accessories

43381	Analog output: selectable 0-10V, 4-20 mA	300.00
45409	Allen-Bradley Remote I/O (internal)	650.00
49976	Profibus DP® interface kit (internal)	650.00
45408	4-channel internal relay board, relays sold separately (requires two for eight relays)	150.00
45410	Panel mount kit** (flat face only) ☒	75.00
78445	NEMA 4X panel mount kit (flat face only)	100.00
19369	Batching start/stop switch box ☒	300.00
77925	Revolution™ III scale software* ...☒	35.00
64505	Additional operating manual.....☒	21.00
83568	Clear protective overlay (package of five)	60.00
92777	Filter, PreVent™ vent kit☒	25.00

Primary Component Parts

64956	Board assembly, 115 VAC☒	625.00
64960	Board assembly, 230 VAC☒	625.00
41386	Switch panel membrane☒	68.00
45484	160 mA TR5 subminiature fuses, 115 VAC	3.15
45107	80 mA TR5 subminiature fuses, 230 VAC	3.15

I/O relay modules sold separately

15969	G4IDC5 10-32 VDC Input relay module, white (N/O)	30.00
15970	G40DC5R Dry contact 100 VDC/1.5 A output, red (N/O)	30.00
22848	G40DC5R5 Dry contact 100 VDC/1.5 A output, red (N/C)	30.00
15971	G40AC5 115 VAC Output relay module, black (N/O)	30.00
15972	G4IAC5 115 VAC Input relay module, yellow (N/O)	30.00
22847	G40AC5A5 115/230 VAC Output relay module, black (N/C)	30.00
36632	G40AC5A 115/230 VAC Output relay module, black (N/O)	30.00
36631	G4IAC5A 230 VAC Input relay module, yellow (N/O)	30.00
16478	Quencharc arc supressor.....☒	11.00

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

** Panel mount kit is not NEMA rated



^{††} CEE 7/7 plug pattern



[†] NEMA 5-15