IQ plus® 710

Digital Weight Indicator

Sloped face model shown

APPROVALS

Measurement Canada Approved

STANDARD FEATURES

- Stainless steel NEMA 4X/IP66 washdown enclosure
- Large 0.75 in (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)
- Eight digital inputs plus eight digital outputs
- 60 16-character/programmable fields for display prompts
- Power for eight 350 Ω load cells or 16, 700 Ω 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 and 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 (11.5 W) 50 mA @ 230 VAC (11.5 W)

LOAD CELL EXCITATION:
10 VDC, 8 x 350 Ω load cells or 16 x 700 Ω 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:
.3 µV 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 in (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:
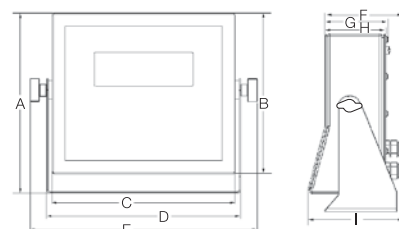NEMA 4X/IP66, stainless steel

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/IIIHD, III at 10,000 Divisions and IIIHD at 20,000 Divisions;
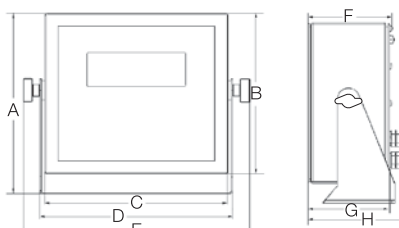OIML approved, TC5678 rev. 1
CE marked
UL & C-UL listed

WARRANTY:
Two-year limited warranty

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

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

Indicators

IQ plus® 710
Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
44545	IQ plus 710, 115 VAC, sloped face†	10 lb	Consult factory
44544	IQ plus 710, 230 VAC, sloped face†	10 lb	Consult factory
45527	IQ plus 710, 115 VAC, flat face, deep enclosure†	10 lb	Consult factory
45528	IQ plus 710, 230 VAC, flat face, deep enclosure†	10 lb	Consult factory
52052	IQ plus 710, 230 VAC, CE marked/OIML approved, sloped face††	10 lb	Consult factory
52051	IQ plus 710, 230 VAC, CE marked/OIML approved, flat face, deep enclosure††	10 lb	Consult factory

OPTIONS/ACCESSORIES

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

Relay Products can be found on page 39

Primary Component Parts

64956	Board assembly, 115 VAC	Consult factory
64960	Board assembly, 230 VAC	Consult factory
41386	Switch panel membrane	Consult factory
45484	160 mA TR5 subminiature fuses, 115 VAC	Consult factory
45107	80 mA TR5 subminiature fuses, 230 VAC	Consult factory

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

** Panel mount kit is not NEMA rated

†† CEE 7/7 plug   † NEMA 5-15 plug

Indicators