



420 Plus

Digital Weight Indicator



Standard Features

- LED display, 0.8 in (20.3 mm), six-digit, seven-segment
- Full numeric keypad
- NEMA Type 4X/IP66 stainless steel washdown enclosure
- Power for eight 350 ohms load cells or 16, 700 ohms load cells
- Configurable analog to digital measurement rate
- Primary/secondary units configuration: lb, kg, ounces, short tons, metric tons, grams or none
- Two independent communication ports:
(2) full duplex, (1) unidirectional active 20 mA current loop
- Standardized EDP command sets
- Programmable ticket formats up to three 300-character printouts
- Full front-panel digital calibration and configuration
- Universal mounting stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Two digital inputs, two digital outputs
- Time and date
- Count mode
- Two setpoints, free running
- Keyed tare
- Accumulator
- Configurable with Revolution® software

Approvals



Measurement
Canada
Approved



Specifications

Power, AC:

Line voltages: 100-240VAC
Frequency: 50-60 Hz
Power consumption: 1.5A at 115VAC (8W)
0.75A at 230VAC (8W)

Power, DC:

Line voltages: 9-36VDC DC input
Power consumption: 1.5A Max

Excitation Voltage:

+5VDC 8 x 350Ω or 16 x 700Ω load cells

Analog Signal Input Range:

-0.5 mV/V - 4.5 mV/V

Analog Signal Sensitivity:

0.3 μV/graduation minimum,
1.5 μV/grad recommended

A/D Sample Rate:

7.5 to 60 Hz software selectable

Resolution:

Internal: 8 million internal graduations
Display: 100,000 displayed graduations

System Linearity / PI Rating:

Within 0.01% of full scale

Digital I/O:

Two inputs with eight functions
Two outputs, 250 mA max sink

Circuit Protection:

RFI, EMI, ESD protection

Communication Ports:

EDP port: Full duplex RS-232
Printer port: Full duplex RS-232 or simplex active
20 mA current loop
Both ports: 38400, 19200, 9600, 4800, 2400, 1200,
600, 300bps; 7 or 8 data bits; even, odd, or no parity

Display:

0.8 in (20 mm), six-digit super red light emitting diode
(LED) display, seven-segment, digits

Status Annunciators:

Designators for: Center of zero, stand still, gross, net,
lb, kg, count, tare

Keys/Buttons:

21-key flat membrane panel

Temperature Range

Certified: 14°F to 104°F (-10°C to 40°C)
Operating: 14°F to 122°F (-10°C to 50°C)

Weight:

6.1 lb (2.8 kg)

Rating/Material:

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

Warranty:

Two-year limited warranty

Approvals:

NTEP CC 04-076, Class III/IIIL 10,000d
Measurement Canada AM-5554, Class III/IIILD
10,000d
EU Test Certificate TC004, 10,000d
UL/cUL Listed
CE marked



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Part Number/Price

Part #	Description	Est. Weight	Price
85124 [†]	420, 115 VAC	10 lb	Consult
85125 ^{††}	420, 230 VAC	10 lb	Consult
85126 ^{††}	420, 230 VAC CE marked/OIML approved	10 lb	Consult
85656	420, 9-36 VDC nominal	10 lb	Consult
88652 [†]	420 Plus, 115 VAC w/quick connect (Required cable 53640)	10 lb	Consult
88653 ^{††}	420 Plus, 230 VAC w/quick connect (Required cable 53640)	10 lb	Consult



† NEMA 5-15 plug



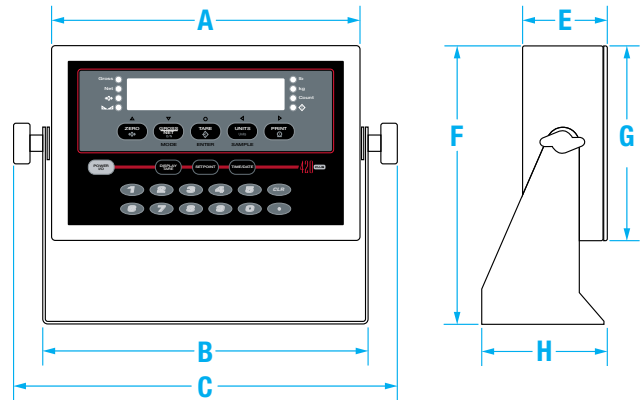
†† CEE 7/7 plug (Euro)

Options/Accessories

Part #	Description	Price
85659	Analog output: selectable 0-10V, 4-20 mA	Consult
52948**	Panel mount kit	Consult
77925*	Revolution® scale software	Consult
85127	Additional operating manual	Consult
92777	Filter, PreVent™ vent kit	Consult
91895	Quick Connect, female connector and cable, 17 in	Consult
53640	Quick Connect, male connector and cable, 20 ft	Consult
Primary Component Parts		
88835	Board assembly	Consult
84397	Overlay membrane panel	Consult
76556	Power supply, auto switching	Consult
132750	DC/DC converter, 9-36VDC	Consult
85791	Fuse, 2.5A, 5 mm x 20 mm	Consult

* Revolution can be downloaded for free at www.ricelake.com

** Panel mount kit is not NEMA rated, consult factory for modifications.



Dimensions			
A	9.50 in (241 mm)	E	3.12 in (79 mm)
B	10.02 in (255 mm)	F	8.57 in (217 mm)
C	11.80 in (300 mm)	G	6.00 in (152 mm)
		H	3.25 in (83 mm)

INDICATORS / CONTROLLERS

www.weigh-tech.com | Phone: (281) 474-5277

