

420 Plus

Digital Weight Indicator



Standard Features

- LED display, 0.8 in (20.3 mm), 6-digit, 7-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
- 2 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
- 3-stage digital filtering
- Consecutive transaction numbering
- 2 digital inputs, two digital outputs
- Time and date
- Count mode
- 2 setpoints, free running
- Keyed tare
- Accumulator
- Configurable with Revolution® software

Approvals



Measurement
Canada
Approved



Specifications

Power - AC:

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

Power - DC:

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

Excitation Voltage:

+5 VDC 8 x 350 Ω or 16 x 700 Ω 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

Resolution:

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

Measurement Rate:

60, 30, 15, 7 1/2, per second

System Linearity:

Within 0.01% of full scale

Digital Inputs:

2 inputs with 8 functions
2 outputs, 250 mA max sink

Circuit Protection:

RFI, EMI, ESD protection

Serial Output:

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, 300 bps; 7 or 8 data bits; even, odd, or no parity

Display:

0.8 in (20 mm), 6-digit super red light emitting diode
(LED) display, 7-segment, digits

Status Annunciators:

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

Keyboard:

21-key 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)

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/IIHD 10,000d
OIML TC7004, 10,000d
UL & cUL listed
CE marked

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Part Number/Price

PART #	DESCRIPTION	EST. SHIP 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

Options/Accessories

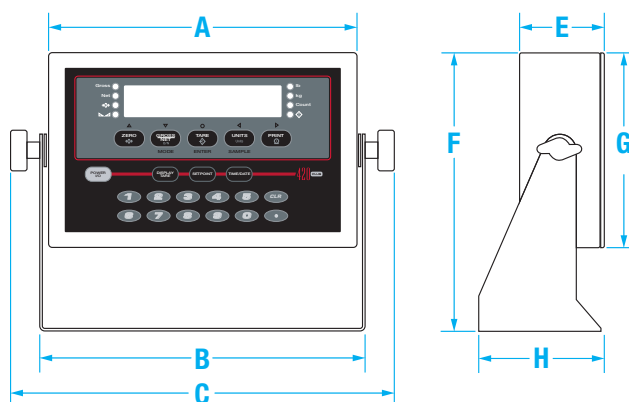
PART #	DESCRIPTION	PRICE
85659	Analog output: selectable 0-10V, 4-20 mA	Consult
52948**	Panel mount kit	Consult
77925*	Revolution® scale software	Consult
85127	Additional operating manual	Consult
92777	Filter, PreVent™ vent kit	Consult
91895	Quick Connect, female connector and cable, 17 in	Consult
53640	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, 9-36 VDC	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)