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



Keys/Buttons: 21-key flat membrane panel

Temperature Range

Status Annunciators:

lb, kg, count, tare

Specifications

Line voltages: 100-240 VAC Frequency: 50-60 Hz

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

7.5 to 60 Hz software selectable

System Linearity / PI Rating: Within 0.01% of full scale

Two inputs with eight functions

Two outputs, 250 mA max sink

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

0.75A at 230VAC (8W)

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:

Excitation Voltage:

Power consumption: 1.5A at 115VAC (8W)

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

Power, AC:

Power. DC:

Resolution:

Digital I/O:

Display:

Circuit Protection:

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

(LED) display, seven-segment, digits

0.8 in (20 mm), six-digit super red light emitting diode

Designators for: Center of zero, stand still, gross, net,

- Weight:
- 6.1 lb (2.8 kg)

Rating/Material:

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

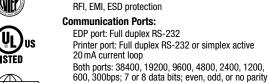
Warranty:

Two-year limited warranty

Approvals:

NTEP CC 04-076. Class III/IIIL 10.000d Measurement Canada AM-5554, Class III/IIIHD 10.000d EU Test Certificate TC004, 10,000d UL/cUL Listed CE marked

RICE LAKE















Part Number/Price

Part #	Description	Est. Weight	Price
85124 [†]	420, 115 VAC	10 lb	\$795.00
85125 ^{††}	420, 230 VAC	10 lb	\$795.00
85126 ^{††}	420, 230 VAC CE marked/OIML approved	10 lb	\$795.00
85656	420, 9-36 VDC nominal	10 lb	\$895.00
88652 [†]	420 Plus, 115 VAC w/quick connect (Required cable 53640)	10 lb	\$850.00
88653 ^{††}	420 Plus, 230 VAC w/quick connect (Required cable 53640)	10 lb	\$850.00

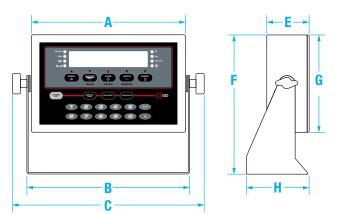
(III) † NEMA 5-15 plug 💿 †† CEE 7/7 plug (Euro)

Options/Accessories

Part #	Description	Price				
85659	Analog output: selectable 0-10V, 4-20 mA					
52948**	Panel mount kit	\$155.00				
77925*	Revolution [®] scale software	\$35.00				
85127	7 Additional operating manual					
92777	777 Filter, PreVent [™] vent kit					
91895	895 Quick Connect, female connector and cable, 17 in					
53640	Quick Connect, male connector and cable, 20 ft					
Primary Component Parts						
88835	Board assembly	\$516.00				
84397	97 Overlay membrane panel					
76556	556 Power supply, auto switching					
132750	2750 DC/DC converter, 9-36 VDC					
85791	85791 Fuse, 2.5A, 5 mm x 20 mm					

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

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



Dimensions								
Α	9.50 in (241 mm)	E	3.12 in (79 mm)	Н	3.25 in (83 mm)			
В	10.02 in (255 mm)	F	8.57 in (217 mm)					
С	11.80 in (300 mm)	G	6.00 in (152 mm)					

INDICATORS / CONTROLLERS

120/120 Plus **Digital Weight Indicator**



Standard Features

120

- LED display, 0.8 in (20.3 mm) six-digit, seven-segment
- Configurable analog to digital measurement rate
- Power for four 350 ohms load cells
- · Primary/secondary units configuration: lb, kg, ounces, grams
- · Five-button operation
- Two independent communication ports: (1) full duplex, (1) unidirectional or active 20 mA current loop
- · Standardized EDP command sets
- · Programmable ticket format up to two 180-character printout
- · Full front-panel digital calibration and configuration
- · Tilt stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Time and date (volatile)

120 Plus

- LCD display, 0.8 in (20.3 mm) six-digit, seven-segment
- · Internal rechargeable lithium battery and wall adapter
- · Power save feature for 700 hours of battery life
- Ten stored tare values
- · Display hold (based on three second average)
- · Time and date
- · Configurable with Revolution® software



Power:

- 120/120 Plus: Line voltages: 115 or 230VAC Frequency: 50 or 60 Hz
- 120 Plus: (estimated battery life) 60 hours with 1 x 350 Ω , 40 hours with 4 x 350 Ω Charge time eight hours
- **Excitation Voltage:**
 - 5 VDC, 4 x 350 Ω or 8 x 700 Ω load cells
- Analog Signal Input Range: -0.6 mV/V - 3.0 mV/V
- Analog Signal Sensitivity:
- 0.3 µV/graduation minimum,
- 1.5 µV/grad recommended A/D Sample Rate:
- 120: 3 to 30 Hz, software selectable 120 Plus: 30 Hz
- Resolution:
 - Internal: 1 million internal graduations Display: 10,000 displayed graduations
- System Linearity / PI Rating: Within 0.01% of full scale
- **Circuit Protection:**
- RFI, EMI, ESD protected
- Load Cell Connection:
 - Cord grip entry Detachable plug (optional)

Serial Output: EDP port: Full duplex RS-232

current loop

lb, kg, oz, g

Status Annunciators:

Canada

Approvals





Display: 120: 0.8 in (20 mm), six-digit red light emitting diode (LED) display, seven-segment digits 120 Plus: 0.8 in (20 mm) six-digit LCD with backlight, seven-segment digits

Printer port: Output-only RS-232 or active 20mA

Seven or eight data bits; even, odd or no parity

120 Plus: Battery, setpoint 1 and 2, Hold

Both ports: 9600, 4800, 2400, 1200, 600, 300bps;

120/120 Plus: Center of zero, stand still, gross, net,

Keys/Buttons:

120: Five-key flat membrane panel, tactile feel 120 Plus: Zero, tare, preset tare, hold, gross/net, units, numeric 0-9, clear, enter/print

(Optional) Digital I/O:

120 Plus: Requires option card 24 volt source Three digital inputs Two digital outputs

Temperature Range

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

Rating/Material:

Enclosure: heavy gauge ABS

Weight:

- 2.6 lb (1.2 kg) Warranty:

NTEP CC 03-059, Class III/IIIL 10,000d Measurement Canada AM-5517, Class III/IIIHD 10,000d EU Test Certificate TC7028 (120) Class III, 10,000d EU Test Certificate TC7626 (120 Plus) Class III, 10,000d

One-year limited warranty Approvals:

- CE marked

www.ricelake.com | Phone: 800-472-6703

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Approved









