## 120/120 Plus **Digital Weight Indicator**



## Standard Features

#### 120

INDICATORS / CONTROLLERS

- LED display, 0.8 in (20.3 mm) six-digit, seven-segment
- Configurable analog to digital measurement rate
- Power for four 350 ohm 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

## **Specifications**

#### 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  $\Omega$ , 40 hours with 4 x 350  $\Omega$ Charge time eight hours
- **Excitation Voltage:**
- 5 VDC, 4 x 350 $\Omega$  or 8 x 700 $\Omega$  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:** 



**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:
- One-year limited warranty

#### Approvals:

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 CE marked

RICE LAKE







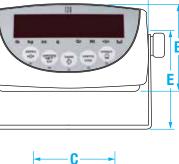




## 120/120 Plus Digital Weight Indicator

# A B Ε

**INDICATORS / CONTROLLERS** 



Ε

#### Part Number/Price

Part #	Description	Est. Weight	Price
120			
131923**	Desktop 115 VAC/230 VAC	3 lb	Consult
120 Plus			
103632**	Desktop 115/230 VAC	3 lb	Consult
107619**	Desktop 115/230 VAC with digital I/O option	3 lb	Consult

\*\*Both plugs included with power adapter

CEE 7/7 plug (Euro) NEMA 5-15 plug  $(\circ \circ)$ 

## **Options/Accessories**

Dimensions A 7.32 in (186 mm)

B 6.06 in (154 mm)

Part #	Description	Price
93205	Load cell connector with 6 m length pigtail (requires 103507)	Consult
82505	Six-pin socket external load cell connector (requires 103507)	Consult
103507	External load cell plug replaces cord grip (requires 82505 or cable 93205)	Consult
107620	Digital I/O card for 120 Plus	Consult
105670	15-Pin connector for 120 Plus	Consult
106705	15-Pin Interface cable for 120 Plus, 2 m length	Consult
76699	Additional operating manual for 120	Consult
105914	Additional operating manual for 120 Plus	Consult
77925*	Revolution <sup>®</sup> scale software	Consult
Primary Co	mponent Parts for 120	
131924	Board assembly for use with internal LC connector	Consult
78610	Overlay membrane switch	Consult
131925**	Power supply, 115 VAC/230 VAC	Consult
64794	Cable, null modem DB9F to DB9M	Consult
<b>Primary Co</b>	mponent Parts for 120 Plus	
103634	CPU/Display board assembly	Consult
103635	Overlay membrane switch	Consult
103636**	Power supply, 115 VAC/230 VAC	Consult
103637	Rechargeable battery	Consult
*Revolution ca	an be downloaded for free at www.ricelake.com	

C 3.74 in (95 mm)

D 1.65 in (42 mm)

E 4.76 in (121 mm)

