

# 120/120 Plus

Digital Weight Indicator



INDICATORS /  
CONTROLLERS

## Approvals



Measurement  
Canada  
Approved



## Standard Features

### 120

- LED display
- Configurable analog to digital measurement rate
- Primary/secondary units configuration: lb, kg, ounces, grams
- Five-button operation
- Two independent communication ports
- 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
- 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 230 VAC  
Frequency: 50 or 60 Hz

### Battery Life:

#### 120 Plus

60 hours with 1 × 350 ohm, 40 hours with 4 × 350 ohm load cells  
Eight hour charge time

### Excitation Voltage:

5 VDC, 4 × 350 ohm or 8 × 700 ohm load cells

### Analog Signal Input Range:

-0.6 mV/V to 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: 1,000,000 counts

Display: 10,000

### System Linearity:

Within 0.01% of full scale

### (Optional) Digital I/O:

120 Plus: Requires option card

24 volt source

Three digital inputs

Two digital outputs

### Circuit Protection:

RFI, EMI, ESD protected

### Load Cell Connection:

Cord grip entry

Detachable plug (optional)

### Communication Port:

EDP port: Full duplex RS-232

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

Both ports: 9600, 4800, 2400, 1200, 600, 300bps;  
Seven or eight data bits; even, odd or no parity

### Annunciators:

120/120 Plus: Center of zero, standstill, gross, net, lb, kg, oz, g

120 Plus: Battery, setpoint 1 and 2, Hold

### 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

### 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

### 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

### Approvals:

NTEP CC 03-059, Class III/IIIL 10,000d

Measurement Canada AM-5517

EU Test Certificate TC7626

CE Marked

## Part Number/Price

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

NOTE: Both plugs included with power supply



US Plug



Euro Plug

## Options/Accessories

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
<b>Primary Component Parts for 120</b>		
131924	Board assembly for use with internal load cell 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 Component Parts for 120 Plus</b>		
103634	CPU/Display board assembly	Consult
103635	Overlay membrane switch	Consult
103636	Power supply, 115 VAC/230 VAC	Consult
103637	Rechargeable battery	Consult

Revolution can be downloaded for free at [www.ricelake.com](http://www.ricelake.com)

To have your option factory installed, please specify when placing your order.

## Dimensions

120/120 Plus			
A	7.32 in (186 mm)	D	1.65 in (42 mm)
B	6.06 in (154 mm)	E	4.76 in (121 mm)
C	3.74 in (95 mm)		

