

# 120/120 Plus

Digital Weight Indicator



## Standard Features

### 120

- LED display, 0.8in (20.3mm) six-digit, seven-segment
- Configurable analog to digital measurement rate
- Power for four 350ohm load cells
- Primary/secondary units configuration: lb, kg, ounces, grams
- Five-button operation
- Two independent communication ports: (1) full duplex, (1) unidirectional or active 20mA 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, 0.8in (20.3mm) 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

## Approvals



Measurement  
Canada  
Approved



Available on 120 Plus

## Specifications

### Power:

#### 120/120 Plus:

Line voltages: 115 or 230 VAC  
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  $\mu$ V/graduation minimum,  
1.5  $\mu$ V/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  
Printer port: Output-only RS-232 or active 20mA current loop  
Both ports: 9600, 4800, 2400, 1200, 600, 300bps;  
Seven or eight data bits; even, odd or no parity

### Status Annunciators:

120/120 Plus: Center of zero, stand still, 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 back-light, 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

### (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/IIHD 10,000d

EU Test Certificate TC7028 (120) Class III, 10,000d

EU Test Certificate TC7626 (120 Plus) Class III,

10,000d

CE marked

# 120/120 Plus

## Digital Weight Indicator

### 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

\*\*Both plugs included with power adapter



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
77925*	Revolution® scale software	Consult
<b>Primary Component Parts for 120</b>		
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 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

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

