

# 420 Plus HMI Digital Weight Indicator



## STANDARD FEATURES

- Large .8 in (20.3 mm) Light Emitting Diode (LED) Display
- Full numeric keypad
- NEMA 4X/IP66 stainless steel washdown enclosure
- Power for eight 350 Ω load cells or 16, 700 Ω 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
- Keyed tare
- Accumulator

## APPROVALS



Measurement  
Canada  
Approved



## SPECIFICATIONS

### Power - AC:

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

### Power - DC:

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

### Excitation Voltage:

+5VDC 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 4X/IP66, heavy gauge stainless steel

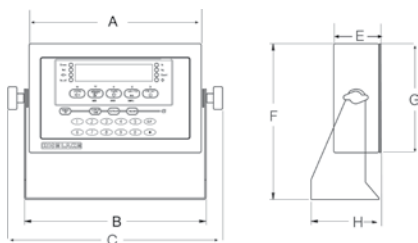
### Warranty:

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

INDICATORS/CONTROLLERS



## DIMENSIONS

A	9.50 in (24 mm)	F	8.57 in (217 mm)
B	10.02 in (254 mm)	G	6.00 in (152 mm)
C	11.80 in (299 mm)	H	3.25 in (82 mm)
E	3.12 in (79 mm)		3.0 in (76.2 mm)

**420 Plus** HMI Digital Weight Indicator**PART NUMBER/PRICE**

PART #	DESCRIPTION	WEIGHT	PRICE
85124	420, 115VAC†	10 lb	Consult
85125	420, 230VAC†	10 lb	Consult
85126	420, 230VAC†† CE marked/OIML approved	10 lb	Consult
85656	420, 9-36VDC nominal	10 lb	Consult
88652	420 Plus, 115 VAC w/quick connect	10 lb	Consult
88653	420 Plus, 230 VAC w/quick connect	10 lb	Consult

**OPTIONS/ACCESSORIES**

PART #	DESCRIPTION	PRICE
85659	Analog output: selectable 0-10V, 4-20 mA	Consult
112986	Wireless LAN card 802.11 B/G	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**

85123	Board assembly	Consult
84397	Overlay membrane panel	Consult
76556	Power supply, auto switching	Consult
97475	DC/DC converter, 9-36VDC	Consult
85791	Fuse, 2.5A, 5 x 20 mm	Consult

\* Revolution® can be downloaded for FREE at [www.ricelake.com](http://www.ricelake.com)

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



†† CEE 7/7 plug



† NEMA 5-15 plug