

# 420 PLUS

HMI DIGITAL  
WEIGHT INDICATOR



**RICE LAKE**<sup>®</sup>  
WEIGHING SYSTEMS

To be the best by every measure<sup>®</sup>

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# HMI DIGITAL WEIGHT INDICATOR



## The 420 Plus... Performance, Plus Durability, Plus a Full Numeric Keypad

From tare entry to counting to setpoint outputs, the 420 Plus is the ideal choice for any industrial weighing application. A full numeric keypad allows tare entry directly from the keypad for weighing the contents of totes, cylinders, and containers, eliminating the need to scroll and toggle tare weight values. A count mode allows keyed piece count and APW (average piece weight). Two front panel accessible, free-running setpoints activate lights or buzzers.

Optional DC capability makes the 420 plus an ideal instrument for onboard weighing. Time and date are easily set from the front panel to display and print on a transaction ticket.

The 420 Plus is encased in a tough, all stainless steel NEMA 4X/IP66 enclosure for extra-long life, even in the harshest conditions. The ultra-bright, oversized display reduces operator error and accelerates productivity.

Fully interactive, the 420 Plus features two independent communication ports for complete EDP and print ticket programmability. It easily programs two formats with up to 300 characters, allowing you to create complex custom tickets.

The 420 Plus drives up to eight 350Ω load cells, making it the perfect choice for multi-cell applications. Additionally, it features three-stage RATTLETRAP® digital filtering for eliminating most vibration interference and providing stable, accurate weight data regardless of environment.

The 420 Plus provides two print formats that can be customized to include up to 300 characters on printed tickets.



### Standard Features

- Large .8" (20.3mm) Light Emitting Diode (LED) display
- Primary/secondary units configuration: lb, kg, oz, g, short tons, metric tons or none
- Stainless steel washdown enclosure
- Five-button operation with full numeric keypad
- Power on/off display, display tare, setpoint, and time & date keys
- Two independent communication ports
- 2 x 300-character programmable print formats
- Power for (8) 350Ω load cells or (16) 700Ω load cells
- RATTLETRAP® three-stage digital filtering
- Piece-count mode
- Consecutive numbering
- Two digital inputs and two digital outputs
- Time and date

### Options

- Analog output: selectable 0-10V, 4-20 mA, 0-20 mA
- DC operation 9-36VDC
- Panel-mount kit

### Specifications

<b>Display:</b>	0.8" (20.3mm) LED 6-digit
<b>Annunciations:</b>	Gross, net, zero, motion, lb, kg, count, tare
<b>Power:</b>	115VAC or 230VAC, 50-60Hz 9-36VDC (optional)
<b>Excitation Voltage:</b>	5 VDC
<b>Load Cells:</b>	(8) x 350Ω, (16) x 700Ω
<b>Internal Resolution:</b>	8,000,000 internal counts
<b>External Resolution:</b>	100,000 display divisions
<b>System Linearity:</b>	Within 0.01% of full scale
<b>Measurement Rate:</b>	Configurable up to 60 updates/second
<b>Filtering:</b>	RATTLETRAP® three-stage digital filtering
<b>Serial Ports:</b>	Two independent outputs, (2) full duplex RS-232 or (1) simplex 20 mA
<b>Consecutive Number:</b>	1 to 999,999
<b>Radiated Immunity:</b>	3 volts/meter EN 61000-4-3
<b>ESD Immunity:</b>	IEC 801-2:91 EN 61000-4-2 per EN 45501
<b>Digital Inputs:</b>	Two configurable digital inputs
<b>Digital Outputs:</b>	Two configurable digital outputs
<b>Enclosure:</b>	NEMA 4X/IP66
<b>Enclosure Size:</b>	9.5" x 6" x 2.75" (241.3mm x 152.4mm x 69.9mm)
<b>Temperature Range:</b>	Legal-for-trade: 14°F to 104°F (-10°C to +40°C)
<b>Warranty:</b>	2-year limited warranty

### Approvals



Your Rice Lake Weighing Systems distributor is:

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