420 PLUS
HMI DIGITAL WEIGHT INDICATOR

RICE LAKE
WEIGHING SYSTEMS
Commitment Beyond Measurement®

www.ricelake.com
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 keypads, count and APW (average piece weight). Two front panel accessible, free-running setpoints activate lights or buzzers.

Optional DC capability makes it the ideal instrument for on-board 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 (8) 350 Ω 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.

**Standard Features**

- Large .8" (20.3 mm) 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
- Two independent communication ports
- 2 x 300-character programmable print formats
- Power for (8) 350 Ω load cells or (16) 700 Ω 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, 4-20mA, 0-20mA
- DC operation 9-36VDC
- Panel mount kit

**Specifications**

**Display:**
- 0.8" (20.3 mm) LED 6-digit

**Annunciators:**
- Gross, net, zero, motion, lb, kg, count, tare

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

**Approvals**

- Measurement Canada Approved
- CE
- UL
- OIML
- Listed
- TC 7004