

Load Cell Central

1-800-LOADCEL

UMC612 Digital Weight Indicator



Measurement
Canada
Approved

The UMC612 digital weight indicator offers the very latest in technology and performance for checkweighing, draft weighing, and setpoint control or automatic batching applications. Utilizing new conversion technology that has already been proven in severe military environments, the UMC612 processes up to 100 conversions per second, features bi-polar resolution up to 1 million counts, and is easily configured for custom applications.

Available in a stainless steel NEMA 4X enclosure, the UMC612 also features full EMI/RFI-shielding, dual serial ports, time and date display, and expansion capabilities.

PART # DESCRIPTION

115 VAC

- 56701 UMC612AAAA, tilt stand, 115 VAC 60 Hz, standard, standard
- 62888 UMC612BAAA, panel mount brackets, 115 VAC 60 Hz, standard, standard
- 61847 UMC612AABA, tilt stand, 115 VAC 60 Hz, two solid state relays, standard
- 61862 UMC612AACA, tilt stand, 115 VAC 60 Hz, analog 0-10 VDC; 4-20 mA output (includes option B), standard
- 62901 UMC612BACA, panel mount brackets, 115 VAC 60 Hz, analog 0-10 VDC; 4-20 mA output (includes option B), standard
- 61845 UMC612CACA, flange mount, 115 VAC 60 Hz, analog 0-10 VDC; 4-20 mA output (includes option B), standard
- 61837 UMC612AAB, tilt stand, 115 VAC 60 Hz, standard, connector
- 61849 UMC612AABB, tilt stand, 115 VAC 60 Hz, two solid state relays, connector
- 62895 UMC612BABB, panel mount brackets, 115 VAC 60 Hz, two solid state relays, connector
- 61866 UMC612AACB, tilt stand, 115 VAC 60 Hz, analog 0-10 VDC; 4-20 mA output (includes option B), connector
- 62902 UMC612BACB, panel mount brackets, 115 VAC 60 Hz, analog 0-10 VDC; 4-20 mA output (includes option B), connector

230 VAC

- 61928 UMC612CBAA, flange mount, 230 VAC 50 Hz, standard, standard
- 61942 UMC612ABAB, tilt stand, 230 VAC 50 Hz, standard, connector
- 61952 UMC612ABBB, tilt stand, 230 VAC 50 Hz, two solid state relays, connector

Applications

- Check weighing, draft weighing, set point control, automatic batching

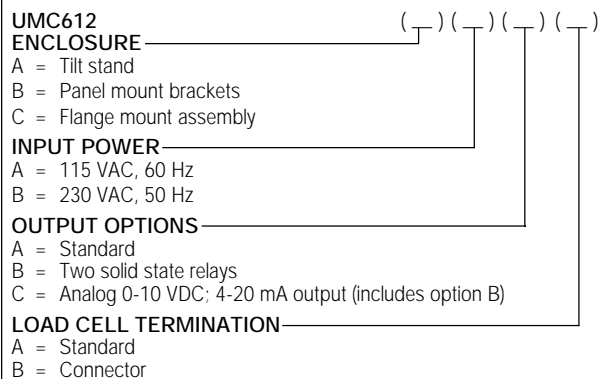
Standard Features

- Bi-polar resolution up to 1,000,000 counts
- EMI/RFI shielding
- Dual serial ports
- Time and date
- NEMA 4X stainless steel
- Multi-line display, six digits for weight and 16 alpha-numeric for process status information
- Digital and selective 2Hz analog filtering
- Active temperature compensation for zero and span
- Automatic gain adjustment
- Selectable conversion rate
- 10-point linearity compensation
- Automatic dead load compensation
- Rate-by-weight and peak hold
- Eight setpoint outputs and four process inputs
- Key-code entry protection
- Programmable batch sequence and print format
- Multi-ingredient accumulation
- Full serial control with 20mA, RS-232, RS-422 or RS-485

Options/Accessories

- 55653 Relay board with four solid state relays (new-stlye), KBT7116-16
- 55658 Analog kit (no board), KBT7116-17
- 55660 Analog board, KBT7116-18
- 55662 Relay and analog output board, KBT7116-19
- 55665 RS-485 serial output
- 55825 Additional operating manual

UMC612 PART NUMBERING GUIDE



All other part number configurations are available as special order units.

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1-800-LOADCEL

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Specifications

LOAD CELL EXCITATION:

10 VDC

LOAD CELL CURRENT:

240 mA maximum (8 x 350 Ω load cells)

ANALOG SIGNAL INPUT RANGE:

0.5 to 3.4 mV/V

CONVERSIONS PER SECOND:

7.5, 10, 20, 30, 40, 60, or 100

ANALOG FILTERING:

Active 2 Hz or wide band

DIGITAL FILTERING:

Adaptive

DIGITAL AVERAGING:

Selectable 1-99

DEAD LOAD COMPENSATION:

Auto adjust to 2 mV/V

LINEARIZATION:

10-point

DISPLAY GRADUATIONS:

100,000 maximum

WEIGHT DISPLAY:

6-digit (7segment), 0.55" (14mm) Light Emitting Diode (LED)

AUX. DISPLAY:

16 alph-numeric LED characters

FRONT PANEL CONTROL KEYS:

"Mode", "Xero", "Tare", "Print", "Trim", "Step", "Start/Stop", "Total", "Recall", "ID", "Time", "Date", "Setpt", "Delay", "Units", "Count", and "0-9"

OPERATING MODELS:

Gross, net, rate, peak or batch

DIGITAL (SERIAL) OUTPUT:

Port 1: simplex/duplex, RS-232, RS-422, RS-485, or 20 mA

Port 2: simplex, RS-232, or 20 mA

ACCUMULATORS:

10, 10-digit accumulators

DELAYS:

10, 1 to 999 sec.

ID'S:

10, up to 8 characters each

COUNTER:

6-digit batch counter

PROCESS CONTROLS:

Setpoints: 8 logic outputs

Inputs: 4 logic inputs

Batch: variable sequence

Peak: store peak

Gross, Net, or Rate

POWER INPUT:

115, 230, or 240 VAC 50/60 Hz

OPERATING TEMPERATURE:

4°F to 122°F (-20°C to 50°C)

RATING/MATERIAL:

NEMA 4X stainless steel

OVERALL DIMENSIONS:

9.12" L x 6.62" H x 6.35" W
(231mm L x 168mm H x 161mm W)

WEIGHT:

12 lb (5.4 kg)

APPROVALS:

NTEP certified, CC# 00-007

Measurement Canada approved, MAL-AM-5055

WARRANTY:

Two year limited warranty

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