CONDEC™ UMC612   Digital Weight Indicator

Measurement Canada Approved

The UMC612 digital weight indicator offers advanced capabilities and performance for checkweighing, draft weighing, and setpoint control or automatic batching applications. Utilizing new conversion technology, 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.

Applications

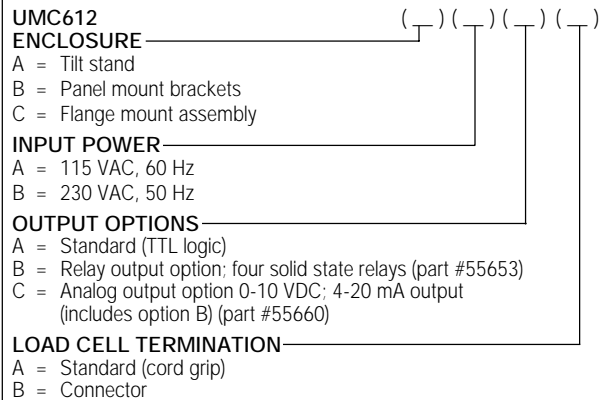• Checkweighing, draft weighing, setpoint control, automatic batching

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
• 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

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, four 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 .... **UMC612AAAB**, tilt stand, 115 VAC 60 Hz, standard, connector

61849 .... **UMC612AABB**, tilt stand, 115 VAC 60 Hz, four solid state relays, connector

62895 .... **UMC612BABB**, panel mount brackets, 115 VAC 60 Hz, four 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, four solid state relays, connector

UMC612 PART NUMBERING GUIDE

UMC612   (_) (_) (_) (_)

ENCLOSURE
A = Tilt stand
B = Panel mount brackets
C = Flange mount assembly

INPUT POWER
A = 115 VAC, 60 Hz
B = 230 VAC, 50 Hz

OUTPUT OPTIONS
A = Standard (TTL logic)
B = Relay output option; four solid state relays (part #55653)
C = Analog output option 0-10 VDC; 4-20 mA output (includes option B) (part #55660)

LOAD CELL TERMINATION
A = Standard (cord grip)
B = Connector

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

LOAD CELL EXCITATION:
10 VDC

LOAD CELL CURRENT:
240 mA maximum (8 x 350Ω 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 alpah-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