

CONDEC™ UMC600 Digital Weight Indicator



Measurement
Canada
Approved



Excelling a variety of demanding most applications, the UMC600 is one of the most versatile weight indicators available today. It offers simple prompting sequences for easy calibration and configuration. It locks in the most accurate weighments with features like automatic zero tracking (AZT) and 80,000 displayed graduations. Encased in a NEMA 4X stainless steel enclosure, the UMC600 ensures long-lasting performance and durability regardless of the environment.

PART #	DESCRIPTION (PART NUMBERING CHART ON BACK OF PAGE)
115 VAC	
19198	UMC600AAAC, stainless steel enclosure w/tilt stand, 115 VAC 60 Hz, LED, RFI shielded
55623	UMC600BAAC, stainless steel enclosure w/panel mount brackets, 115 VAC 60 Hz, LED, RFI shielded
61652	UMC600DAAC, flange mount, 115 VAC 60 Hz, LED, RFI shielded
59659	UMC600ACAC, stainless steel enclosure w/tilt stand, 115 VAC 60 Hz w/battery, LED, RFI shielded
54117	UMC600AFAC, stainless steel enclosure w/tilt stand, 115 VAC analog 0-10 VDC; 4-20 mA output, LED, RFI shielded
54722	UMC600AHAC, stainless steel enclosure w/tilt stand, 115 VAC relay output (solid state), LED, RFI shielded
55622	UMC600AKAC, stainless steel enclosure w/tilt stand, 115 VAC analog 0-10 VDC; 4-20 mA output; 4 SS relays, LED, RFI shielded
56231	UMC600BCAC, stainless steel enclosure w/panel mount brackets, 115 VAC 60 Hz w/battery, LED, RFI shielded
57186	UMC600BFAC, stainless steel enclosure w/panel mount brackets, 115 VAC analog 0-10 VDC; 4-20 mA output, LED, RFI shielded
57774	UMC600BHAC, stainless steel enclosure w/panel mount brackets, 115 VAC relay output (solid state), LED, RFI shielded
62337	UMC600DHAC, flange mount, 115 VAC relay output (solid state), LED, RFI shielded
59057	UMC600AABC, stainless steel enclosure w/tilt stand, 115 VAC 60 Hz, LCD, RFI shielded
59709	UMC600ACBC, stainless steel enclosure w/tilt stand, 115 VAC 60 Hz w/battery, LCD, RFI shielded
55657	UMC600AKBC, stainless steel enclosure w/tilt stand, 115 VAC analog 0-10 VDC; 4-20 mA output; 4 SS relays, LCD, RFI shielded

Applications

- Batching systems, platform scales, truck scales, railroad track scales

Standard Features

- Surge protection board
- Auto/manual batching modes
- 80,000 display graduations available
- RFI/EMI shielded
- Easy digital configuration and calibration
- Four control inputs/outputs
- Truck in/out weighing mode, 300 truck ID storage
- One 10-digit accumulator
- 5-point linearization
- Keyboard customized serial output
- Time and date
- Front panel key lockout
- Temperature compensated -18° to 104°F (-10° to 40°C)

Options/Accessories

55633	..... Relay board with solid state relays (old style), KBT7116-11
55637	..... Relay board with dry contact relays (old style), KBT7116-12
55649	..... Battery, KBT7116-14
55653	..... Relay board with four solid state relays (new style), KBT7116-16
55658	..... Analog kit (no board), KBT7116-17
55660	..... Analog output board, KBT7116-18
55662	..... Relay and analog output board, KBT7116-19
16815	..... Technical manual
30261	..... Additional operating manual

PART # DESCRIPTION (PART NUMBERING CHART ON BACK OF PAGE)

12 VDC (EXTERNAL INPUT)

62934	..... UMC600AEAC, stainless steel enclosure w/tilt stand, 12 VDC, LED, RFI shielded
56864	..... UMC600BEAC, stainless steel enclosure w/panel mount brackets, 12 VDC, LED, RFI shielded

230 VAC

59318	..... UMC600ABAC, stainless steel enclosure w/tilt stand, 230 VAC 50 Hz, LED, RFI shielded
55960	..... UMC600BBAC, stainless steel enclosure w/panel mount brackets, 230 VAC 50 Hz, LED, RFI shielded
58514	..... UMC600BJAC, stainless steel enclosure w/panel mount brackets, 230 VAC relay output (solid state), LED, RFI shielded
59295	..... UMC600BLAC, stainless steel enclosure w/panel mount brackets, 230 VAC analog 0-10 VDC; 4-20 mA output; 4 SS relays, LED, RFI shielded

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

LOAD CELL EXCITATION:

10 VDC, fixed, short-circuit proof

LOAD CELL CURRENT:

240 mA maximum (8 350Ω load cells)

ANALOG SIGNAL INPUT RANGE:

0.7 mV/V - 2.0 mV/V "high span"

1.7 mV/V - 3.2 mV/V "low span"

CONVERSION RATE AT FULL SCALE:

10 updates per second, no averaging

RESOLUTION:

10,000 displayed graduations, expanded 80,000 (max.)

80,000 internal graduations

DISPLAY:

6-digit, 0.6" (15.2mm) red Light Emitting Diode (LED) Display

FRONT-PANEL CONTROL SWITCHES:

Zero, Gross/Net, Tare, Print

FRONT-PANEL ANNUNCIATORS:

Center Zero, Net, lb, kg, Motion (Red bar LEDs)

SERIAL OUTPUT:

Port 1: Full duplex RS-232, 20 mA current loop (optional RS-485)

Port 2: Simplex RS-232, 20 mA current loop

MOTION BAND:

Selectable: Off, ±1, ±3 graduations, 1 second delay

SETPOINT OUTPUT CONTROL:

4 bi-polar 5VDC logic levels

REMOTE CONTROL INPUTS:

4, 5VDC logic levels

POWER INPUT:

115/230 VAC, 50/60 Hz, or external DC

POWER CONSUMPTION:

15 watts

OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C)

OVERALL DIMENSIONS:

9.12" L x 6.62" H x 4.18" W (251mm L x 168mm H x 106mm W)

WEIGHT:

Approximately 9.5 lb (4.3kg)

APPROVALS:

NTEP certified, CC# 00-004; CE marked (on selected modules);

Measurement Canada approved, MAL-SWA-4131; CSA

WARRANTY:

Two year limited warranty

UMC600 PART NUMBERING GUIDE

UMC600

ENCLOSURE _____ () ()

A = Stainless steel with tilt stand

B = Stainless steel with panel mount brackets

D = Flange Mount

INPUT POWER _____

A = 115 VAC, 60 Hz

B = 230 VAC, 50 Hz

C = 115 VAC, 60 Hz with battery option (part #55649)

D = 230 VAC, 50 Hz with battery option (part #55649)

E = 12 VDC (external input)

F = 115 VAC with analog output option 0-10 VDC; 4-20 mA (part #55660)

G = 230 VAC with analog output option 0-10 VDC; 4-20 mA (part #55660)

H = 115 VAC with relay output option (solid state) (part #55653)

J = 230 VAC with relay output option (solid state) (part #55653)

K = 115 VAC with analog & relay output option 0-10 VDC;

4-20 mA output, 4 SS relays (part #55662)

L = 230 VAC with analog & relay output option 0-10 VDC;

4-20 mA, 4 SS relays (part #55662)

DISPLAY _____

A = Light Emitting Diode (LED)

B = Liquid Crystal Display (LCD)

LOAD CELL TERMINATION _____

C = RFI - shielded 6-wire connector