

# Load Cell Central

1-800-LOADCEL

## UMC600 Digital Weight Indicator



Measurement  
Canada  
Approved

Excelling in 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 weightings 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	.....	UMC600AAC, 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
62723	.....	UMC600CAAC, uncased board set, 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
58970	.....	UMC600BKAC, stainless steel enclosure w/panel mount brackets, 115 VAC analog 0-10 VDC; 4-20 mA output; 4 SS relays, LED, RFI shielded
62337	.....	UMC600DHAC, flange mount, 115 VAC relay output (solid state), LED, RFI shielded
62708	.....	UMC600DKAC, flange mount, 115 VAC analog 0-10 VDC; 4-20 mA output; 4 SS relays, LED, RFI shielded
59057	.....	UMC600AABC, stainless steel enclosure w/tilt stand, 115 VAC 60 Hz, LCD, RFI shielded
55659	.....	UMC600BABC, stainless steel enclosure w/panel mount brackets, 115 VAC 60 Hz, LCD, RFI shielded
59709	.....	UMC600ACBC, stainless steel enclosure w/tilt stand, 115 VAC 60 Hz w/battery, LCD, RFI shielded

### Applications

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

### Standard Features

- 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
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) 115 VAC (CONT.)

54149	.....	UMC600AFBC, stainless steel enclosure w/tilt stand, 115 VAC analog 0-10 VDC; 4-20 mA output, 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

### 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
60118	.....	UMC600ADAC, stainless steel enclosure w/tilt stand, 230 VAC 50 Hz w/battery, LED, RFI shielded
54442	.....	UMC600AGAC, stainless steel enclosure w/tilt stand, 230 VAC analog 0-10 VDC; 4-20 mA output, 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 Central

1-800-LOADCEL

## UMC-600

## Specifications

### 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

### WARRANTY:

Two year limited warranty

### UMC600 PART NUMBERING GUIDE

#### UMC600

#### ENCLOSURE

A = Stainless steel with tilt stand

B = Stainless steel with panel mount brackets

C = Uncased board set

D = Flange Mount

#### INPUT POWER

A = 115 VAC, 60 Hz

B = 230 VAC, 50 Hz

C = 115 VAC, 60 Hz with battery

D = 230 VAC, 50 Hz with battery

E = 12 VDC (external input)

F = 115 VAC analog 0-10 VDC; 4-20 mA output

G = 230 VAC analog 0-10 VDC; 4-20 mA output

H = 115 VAC relay output (solid state)

J = 230 VAC relay output (solid state)

K = 115 VAC analog 0-10 VDC; 4-20 mA output, 4 SS relays

L = 230 VAC analog 0-10 VDC; 4-20 mA output, 4 SS relays

#### DISPLAY

A = Light Emitting Diode (LED)

B = Liquid Crystal Display (LCD)

#### LOAD CELL TERMINATION

C = RFI - shielded 6-wire connector

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