Condec™ UMC 600 IS Hazardous Environment Indicator

The UMC 600 IS weight indicator is the latest in the UMC product line that now has Factory Mutual Approval for Class I, II, III; Division 1 and 2; Groups A, B, C, D, E, F, and G.

This state-of-the-art and cost effective solution to intrinsically safe weighing is specifically designed for easy installation.

UMC 600 IS Part Numbering Guide

UMC 600 IS ( ) ( ) ( ) ( )

UNIT MOUNTING STYLE
- A = Tilt stand
- B = Panel mounting bracket

OPERATING POWER
- A = 115 VAC, 50/60 Hz
- B = Battery power supply

DISPLAY
- A = Light Emitting Diode (LED)
- B = Liquid Crystal Display (LCD)

TERMINATIONS
- A = Mating connectors
- B = Junction box/mating cables

PART # DESCRIPTION

115 VAC

57038 .... UMC600ISAAAA, tilt stand, 115 VAC, LED, mating connectors

61943 .... UMC600ISAABA, tilt stand, 115 VAC, LCD, mating connectors

57043 .... UMC600ISAAAB, tilt stand, 115 VAC, LED, junction box/ mating cables

BATTERY POWER

62079 .... UMC600ISABAA, tilt stand, battery power supply, charger, LED, mating connectors

62097 .... UMC600ISABBA, tilt stand, battery power supply, charger, LCD, mating connectors

62081 .... UMC600ISABAB, tilt stand, battery power supply, charger, LED, junction box/mating cables

Applications

- Fueling stations, liquid or gaseous
- Paint & ink manufacturing and mixing plants
- Fertilizer plants
- Portable hazardous weighing
- Control solutions for Class I, II, III; Division 1 and 2; Groups A, B, C, D, E, F, and G

Standard Features

- Auto and manual batch modes with setpoint output control
- Bi-directional 20 mA current loop port
- Light Emitting Diode (LED) or Liquid Crystal Display (LCD)
- Stainless steel NEMA 4 enclosure
- Time and date
- Tilt stand
- Gross/Tare/Net computation
- Front-panel calibration

Options/Accessories

45898 ..... I/O cable and load cell cable (sold by foot)

54074 ..... Load cell connector kit, 6-pin

54084 ..... I/O connector kit, 5-pin

45897 ..... Power supply cable (sold by foot)

54080 ..... Power supply connector kit, 3-pin

54087 ..... Battery charger, 115 VAC

63224 ..... Analog output, 0-10 VDC or 4-20 mA (safe area option, requires I/O barrier)

55683 ..... I/O barrier assembly

58645 ..... Additional operating manual

(Specifications on back)

LOAD CELL EXCITATION:
1 - 350Ω load cell @ 4.56 VDC
2 - 350Ω load cell @ 4.28 VDC
3 - 350Ω load cell @ 4.06 VDC
4 - 350Ω load cell @ 3.82 VDC

LOAD CELL CURRENT:
57 mA (4 x 350Ω load cells)

LOAD CELL CABLING:
6-wire with remote sensing

ANALOG SIGNAL INPUT RANGE:
0.3 uV/V - 3.3 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 uV/graduation

CONVERSION RATE:
10 updates/second

INTEGRATION TIME:
20 mSec typical

RESOLUTION:
10,000 displayed graduations (NTEP), 80,000 expanded
The maximum number of allowed graduations will vary by application

DISPLAY INCREMENTS:
1, 2, 5, 10, 20, 50, 100

UNDERRANGE COUNT CAPACITY:
(-) 400 graduations, typical

LEAD ZERO BLANKING:
Standard, per NBS Handbook H-44

DISPLAY:
6-digits, Light Emitting Diode (LED) or Liquid Crystal Display (LCD), 0.6" (15.2mm), 7 segment display digits

POLARITY INDICATION:
(-) sign

DECIMAL POINT:
Configurable to 0, 0.0, 0.00, 0.000, 0.0000

LB/KG SWITCHING:
Configurable for front panel operation with conversion for tare and setpoint valves

FRONT-PANEL CONTROL SWITCHES:
ZERO, GROSS/NET, TARE, TARE RECALL, PRINT, lb/kg CONV

NUMERIC KEYBOARD:
0-9 keys ENT (Enter) and CE (Clear Entry) keys

FRONT-PANEL LED ANNUNCIATORS:
Center Zero, Gross, Net, Motion, lb, kg

AZM: (ZERO TRACK)
"Gross" mode only; operable over ±5 grads, ±1.0 grads, ±3.0 grads (or Off)

PAZ AND AZM APERATURE:
Configurable to ±1.9% Full Scale or 100% Full Scale

MOTION BAND:
Configurable to ±1 or ±3 graduations, 1 second delay (or Off)

POWER INPUT:
115 VAC; 50/60 Hz
6 VDC battery option

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
NEMA 4X polished stainless steel housing

OVERALL DIMENSIONS:
9.12" L x 6.62" H x 4.18" W
(251mm L x 168mm H x 106mmW)

APPROVALS:
Factory Mutual approved, #J.I. 1B2A9.AX (AC power) and #J.I 3000436 (battery module)

WARRANTY:
One year limited warranty