Panel mount

Desktop

STANDARD FEATURES

- 0.75 in (19 mm), seven-digit Vacuum Fluorescent Display (VFD)
- 16-character 0.25 in (6.3 mm) VFD prompting display
- Eight configurable operator prompts
- Three digital inputs and four digital outputs
- Selectable A/D measurement rates up to 120/second
- Two communication ports:
  EDP port—full duplex, RS-232 and RS-485
  Printer port—full duplex, RS-232 or 20 mA current loop
- Five programmable ticket formats for Gross, Net, Setpoints, Count, and EDP format
- Eight setpoint kinds
- Programmable stream print format

- Time and date
- Push-button or scrolled tare entry
- Over/accept/under checkweigh mode
- Front panel or serial configuration/calibration
- Five point linearization calibration
- Millivolt calibration
- Gravitational compensation calibration
- Power for eight 350 Ω load cells or 16, 700 Ω load cells**
- Expansion port for option card
- Key functions: zero, gross/net, tare, units, print
- Desktop model with panel mount kit can be mounted in existing UMC2000 cutouts
- Peak hold
- Accumulator

APPROVALS

NTEP | c(UL)us LISTED | c(RU)us | OIML | Measurement Canada Approved | CE

SPECIFICATIONS

Power:
Line voltages:115 or 230 VAC
Power consumption: 200 mA @ 115 VAC
160 mA @ 230 VAC
Frequency: 50 or 60 Hz

Excitation Voltage:
10 VDC, 8 x 350 Ω or 16 x 700 Ω load cells

Analog Signal Input Range:
0.3 mV/V – 4 mV/V

Analog Signal Sensitivity:
0.3 µV/graduation @ 7.5 Hz,
1.5 µV/graduation @ 120 Hz

A/D Sample Rate:
7.5 – 120 Hz, software selectable

Resolution:
Internal resolution: Approximately 8 million counts
Display resolution:100,000 dd

System Linearity:
0.01% of full scale

Digital I/O
Digital inputs: 3 inputs, TTL or switch closure, active-low
Digital outputs: 4 outputs, current limited with TTL pull-up

Update Rate:
60 times/seconds

Circuit Protection:
RFI, EMI, ESD protection

Serial Output:
EDP port: Full duplex RS-232 or RS-485
Printer port: Full duplex RS-232 or active 20mA current loop output, 2 wire
Both ports: 300 to 19,200 bps; 7 or 8 data bits; even, odd or no parity

Display:
Vacuum Fluorescent Display (VFD), 7-digit, 14-segment primary weight display. 2 character unit descriptions
16-character dot matrix display for additional symbols, user prompts

Keyboard:
5-key membrane panel, tactile feel

Operating Temperature:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

Weight:
6 lb (2.7 kg)

Rating/Material:
NEMA 4X/IP66 exterior panel surface, stainless steel (panel mount only)
Non-NEMA, painted steel (desktop)
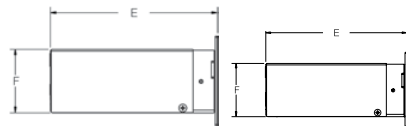
Warranty:
Two-year limited warranty

Approvals:
NTEP CC 01-087, Class III/IIIL 10,000d
Measurement Canada AM-5425, Class III/III HD 10,000d
OIML GB-1160, 10,000d
Desktop CUL listed
Panel mount UL recognized
CE marked

** Option cards reduce the number of load cells that can be powered (Specifications continued on next page)
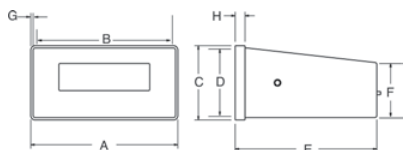
DIMENSIONS - PANEL MOUNT			
A	7.36 in (186.9 mm)	D	2.84 in (72.1 mm)
B	6.22 in (157.9 mm)	E	7.35 in (186.6 mm)
C	3.88 in (98.5 mm)	F	2.75 in (69.8 mm)

Dashed line represents cutout in panel

DIMENSIONS - DESKTOP			
A	7.55 in (191.7 mm)	E	7.27 in (184.6 mm)
B	7.34 in (186.4 mm)	F	2.75 in (69.8 mm)
C	3.80 in (96.5 mm)	G	0.12 in (3.05 mm)
D	3.56 in (90.4 mm)	H	0.50 in (12.7 mm)

PART NUMBER/PRICE

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
115 VAC			
68715	520 panel mount*, stainless steel	7 lb	Consult
100386	520 panel mount* (68715) with analog output (78068)	7 lb	Consult
100387	520 panel mount* (68715) with DeviceNet (78290)	7 lb	Consult
100389	520 panel mount* (68715) with A-B remote I/O (78371)	7 lb	Consult
100392	520 panel mount* (68715) with Ethernet IP (93010)	7 lb	Consult
103206	520 panel mount* (68715) with Ethernet TCP/IP (77205)	7 lb	Consult
79734	520 desktop, painted steel with panel mount††	7 lb	Consult
70153	520 desktop, painted steel with tilt stand†	7 lb	Consult
100396	520 desktop (70153) with Analog output (78068)†	7 lb	Consult
108751	520 desktop (70153) with DeviceNet (78290)	7 lb	Consult
100397	520 desktop (70153) with Ethernet IP (93010)†	7 lb	Consult
96969	520 desktop (70153) with Ethernet TCP/IP (77205)†	7 lb	Consult
230 VAC			
71873	520 panel mount*, stainless steel	7 lb	Consult
71876	520 desktop, painted steel with USA 3-pin plug†	7 lb	Consult
79735	520 desktop, painted steel with panel mount†	7 lb	Consult
230 VAC for Europe			
71868	520 panel mount*, stainless steel	7 lb	Consult
71869	520 desktop, painted steel with Euro 2-pin plug††	7 lb	Consult
79736	520 desktop, painted steel with panel mount†††	7 lb	Consult

OPTIONS/ACCESSORIES

PART #	DESCRIPTION	PRICE
78068	Analog output: selectable 0-10V, 0-20 mA, 4-20 mA	Consult
77205	Ethernet TCP/IP 10 Base-T module	Consult
65383	Ethernet TCP/IP 10 Base-T module (external)	Consult
93010	EtherNet IP (specifically for A-B PLC)	Consult
104011	ControlNet Interface (modified enclosure, side access) SS panel mount only	Consult
78290	DeviceNet™ interface	Consult
78371	Allen-Bradley Remote I/O interface (limited supply)	Consult
78305	Profibus® DP interface	Consult
68386	BCD output	Consult
78433	Wall mount bracket (desktop)	Consult
78425	Panel mount kit, UMC2000 replacement (desktop)	Consult
15436	Power cord, NEMA 5-15 plug pattern (panel mount)	Consult
105382	Power cord, CEE 7/7 plug pattern (panel mount)	Consult
77925	Revolution® scale software**	Consult
68973	Additional operating manual	Consult
83567	Clear protective overlay for panel mount (package of five)	Consult
92777	Filter, PreVent vent kit	Consult
Relay Products Can Be Found on Page 363		
Primary Component Parts		
75063	CPU board, 115 VAC	Consult
75064	CPU board, 230 VAC, fused for USA	Consult
75065	CPU board, 230 VAC, fused for Europe	Consult
69024	Display board	Consult
68718	Membrane switch panel (panel mount)	Consult
77198	Membrane switch panel (desktop)	Consult

**Revolution can be downloaded for FREE at www.ricelake.com

* Does not include power cord

†† CEE 7/7 plug   † NEMA 5-15 plug