

520 HMI Digital Weight Indicator



Panel mount

Desktop



Approvals



Standard Features

- 0.75" (19 mm), seven-digit Vacuum Fluorescent Display (VFD)
- 16-character 0.25" (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
- 8 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
- 5-point linearization calibration
- Millivolt calibration
- Gravitational compensation calibration
- Power for eight 350Ω load cells or 16, 700Ω 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

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 350Ω or 16 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:

0.3 mV/V – 4 mV/V

ANALOG SIGNAL SENSITIVITY:

0.3 μV/graduation @ 7.5Hz,
1.5 μV/graduation @ 120Hz

A/D SAMPLE RATE:

7.5 – 120Hz, 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)

APPROVALS:

NTEP - certified at 10,000 Divisions, Class III/IIIL, CC# 01-087;
Measurement Canada approved, AM-5425; Class III/II HD at 10,000 divisions
OIML: at 10,000 divisions (GB-1160)
Desktop CUL listed
Panel mount RU recognized
CE marked

WARRANTY:

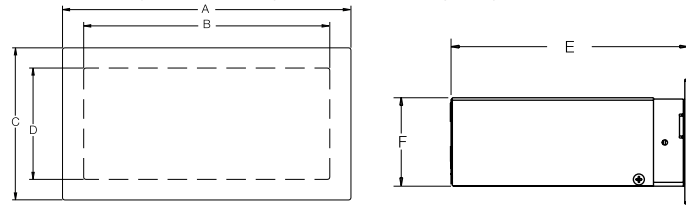
Two-year limited warranty

** Option cards reduce the number of load cells that can be powered

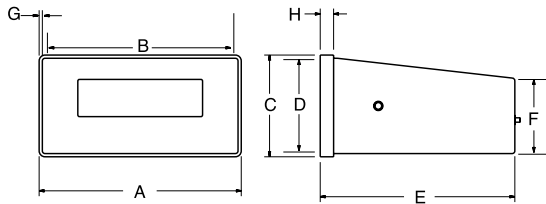
(Specifications continued on next page)

Specifications (continued)

PANEL MOUNT (Dashed line represents cutout in panel)



DESKTOP



DIMENSIONS

Panel Mount

- A = 7.36" (186.9 mm)
- B = 6.22" (157.9 mm)
- C = 3.88" (98.5 mm)
- D = 2.84" (72.1 mm)
- E = 7.35" (186.6 mm)
- F = 2.75" (69.8 mm)

Desktop

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

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
115 VAC			
68715	520 panel mount*, stainless steel	7 lb	875.00
100386	520 panel mount* (68715) with analog output (78068)	7 lb	\$1,175.00
100387	520 panel mount* (68715) with DeviceNet (78290)	7 lb	1,525.00
100389	520 panel mount* (68715) with A-B remote I/O (78371)	7 lb	1,525.00
100392	520 panel mount* (68715) with Ethernet IP (93010)	7 lb	1,675.00
103206	520 panel mount* (68715) with Ethernet TCP/IP (77205)	7 lb	1,270.00
79734	520 desktop, painted steel with panel mount [†]	7 lb	875.00
70153	520 desktop, painted steel with tilt stand [†]	7 lb	875.00
100396	520 desktop (70153) with Analog output (78068) [†]	7 lb	1,175.00
100399	520 desktop (70153) with Ethernet IP (93010) [†]	7 lb	1,675.00
96969	520 desktop (70153) with Ethernet TCP/IP (77205) [†]	7 lb	1,270.00
230 VAC			
71873	520 panel mount*, stainless steel	7 lb	875.00
71876	520 desktop, painted steel w/USA 3-pin plug [†]	7 lb	875.00
79735	520 desktop, painted steel with panel mount [†]	7 lb	875.00
230 VAC for Europe			
71868	520 panel mount*, stainless steel	7 lb	875.00
71869	520 desktop, painted steel w/Euro 2-pin plug ^{††}	7 lb	875.00
79736	520 desktop, painted steel with panel mount ^{††}	7 lb	875.00

* Does not include power cord

†† CEE 7/7 plug pattern

† NEMA 5-15



Options/Accessories

78068	Analog output: selectable 0-10V, 0-20 mA, 4-20 mA	300.00
77205	Ethernet TCP/IP 10 Base-T module	400.00
65383	Ethernet TCP/IP 10 Base-T module (external)	395.00
93010	Ethernet/IP (internal) for A-B PLC	800.00
103137	ControlNet Interface	800.00
78290	DeviceNet™ interface	650.00
78371	Allen-Bradley Remote I/O interface	650.00
78305	Profibus® DP interface	650.00
68386	BCD output	300.00
78433	Wall mount bracket (desktop)	50.00
78425	Panel mount kit, UMC2000 replacement (desktop)	50.00

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

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Options/Accessories			
15436	Power cord, NEMA 5-15 plug pattern (panel mount)		17.00
44679	Power cord, CEE 7/7 plug pattern (panel mount)		17.00
15438	Power cord, NEMA 5-15 plug pattern (desktop)		17.00
72512	Power cord, CEE 7/7 plug pattern (desktop)		17.00
77925	Revolution™ III scale software*		35.00
68973	Additional operating manual		25.00
83567	Clear protective overlay for panel mount (package of five)		50.00
92777	Filter, PreVent™ vent kit		25.00
Primary Component Parts			
75063	CPU board, 115 VAC		570.00
75064	CPU board, 230 VAC, fused for USA		570.00
75065	CPU board, 230 VAC, fused for Europe		570.00
69024	Display board		160.00
68718	Membrane switch panel (panel mount)		48.00
77198	Membrane switch panel (desktop)		48.00

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