

RICE LAKE, 720i Series, Programmable HMI Indicator/Controller



Standard Features

- LCD display size: panel mount (3.8 in x 1.2 in), universal (5.3 in x 1.5 in)
- 4 softkeys
- Truck in/out, 1,000-ID memory
- Process control engine ProAction PCE define conditions and actions
- Data storage onboard, ProAction DBE user-defined
- 8 digital I/O (expandable)
- 1 option slot for pluggable options
- 20 auxiliary print formats
- Time & date
- Audit trail tracking and alibi storage
- Peak hold
- Rate of change
- Accumulator
- Multi-range/interval
- Local/remote
- 2 full duplex serial ports
- One PS-2 keyboard port
- Header for fiber optic, Ethernet or USB
- Configurable with Revolution® software

Optional Communication:

- | | | |
|-------------------|---------------|---------------------|
| • Ethernet TCP/IP | • Fiber optic | • Wi-Fi |
| • RS-485 4 wire | • USB | • Network Protocols |



Panel Mount



CPU Enclosure

Specifications

Power:

Line voltages: 90 or 264 VAC
DC voltages: 9-36 VDC
Frequency: 50 or 60 Hz
Power consumption: 25 watts maximum

Excitation Voltage:

10 VDC, 16 x 350 Ω or 32 x 700 Ω load cells

Analog Signal Input Range:

-10 mV to +45 mV

Analog Signal Sensitivity:

0.3 μV/graduation minimum at 7.5 Hz
1.0 μV/graduation typical at 120 Hz
4.0 μV/graduation typical at 960 Hz

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal resolution: 8 million counts/8,000,000 23 bit
Weight display resolution: 9,999,999

System Linearity:

±0.01% full scale

Digital I/O:

Eight channels on CPU board; optional 24-channel I/O

Circuit Protection:

RFI, EMI, ESD protection

Serial Ports:

2 ports on CPU board support up to 115,200 bps
Port 2: Full duplex RS-232 with handshaking
Port 4: Full duplex RS-232, simplex 20 mA
Keyboard port hard wired (Scan Code 1)
Optional dual-channel serial expansion boards available
Channel A: RS-232, RS-485, 20 mA
Channel B: RS-232, 20 mA

Display:

Panel Mount: 3.8 in x 1.2 in (96 mm x 30 mm)
Universal: 5.3 in x 1.5 in (133 mm x 39 mm)
240 x 64 pixel, Transflective VGA liquid crystal display (LCD) module with adjustable contrast

Keyboard:

10-key (panel mount) membrane panel
22-key (universal mount) membrane panel tactile feel
Optional keyboard connection supported

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:

Universal enclosure: 9.5 lb (4.3 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)

Rating/Material:

NEMA Type 4X/IP66, stainless steel

Warranty:

Two-year limited warranty

Approvals:

NTEP CC 08-022, Class III/IIL 10,000d
Measurement Canada AM 5677 10,000d Class III/IIHD
OIML UK 2893 6,000/10,000d
CE marked
UL /c-UL Listed (universal)
UL Recognized (panel mount)
ROHS compliant

Approvals



Measurement
Canada
Approved



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Part Number/Price

PART #	DESCRIPTION
PCE Software	
101230 †	720i Universal 115/230 VAC
103459 ††	720i Universal 115/230 VAC, CE/OIML marked
107708*	720i Universal, 9-36 VDC
101229**	720i Panel Mount 115/230 VAC
119116**	720i Panel Mount 115/230 VAC, CE/OIML marked
107710*	720i Panel Mount, 9-36VDC
Batch Software	
115447 †	720i Universal 115/230 VAC
115448 ††	720i Universal 115/230 VAC, CE/OIML marked
115449**	720i Panel Mount 115/230 VAC

*DC/DC converter installed option, not UL approved

**Power cord sold separately



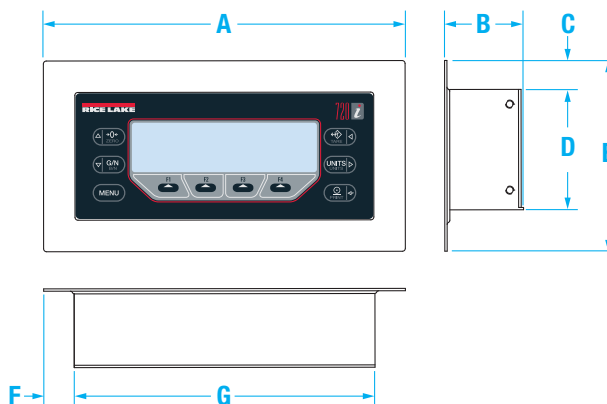
† NEMA 5-15 plug



†† CEE 7/7 plug

Options/Accessories

PART #	DESCRIPTION
Option Cards	
67601	Digital I/O, 24-channel
67602	Analog output: selectable 0-10 V, 0-20 mA
67604	Serial, dual channel
93245	USB Port (PC connection only-replaces serial port 2)
Network Cards	
77142	Ethernet TCP/IP Port (replaces serial port 2)
71986	Ethernet TCP/IP module (installed in option slot)
87803	Ethernet IP (specifically for A-B PLC)
108671	Wireless LAN Card 802.11 A/B
68539	Allen-Bradley Remote I/O interface
68540	Profibus® DP interface
68541	DeviceNet® interface
Hardware	
15436	Power cord for panel mount NEMA Type 5-15 plug
105382	Power cord for panel mount CEE 7/7 plug
93359	PS/2 keyboard
92777	Filter PreVent™ vent kit
19369	Start/stop switch box
83570	Clear protective overlay (package of five)
118975	Panel mount kit, for Universal
101923	Relay box enclosure, does not include relay
Manuals & Software	
103121	Installation manual
104033	720i toolkit CD
107622	720i ProAction Simulator CD
Primary Component Parts	
106788	CPU board assembly
101244	LCD display (panel mount) transfective
101239	Display board (with display for panel mount)
102888	LCD Display (universal) transfective
102887	Display board (w/o display for universal)
67613	AC power supply, 25 watt
97474	DC/DC converter 9-36 nominal, 25 watt
101256	Switch membrane for panel mount
101257	Switch membrane for universal

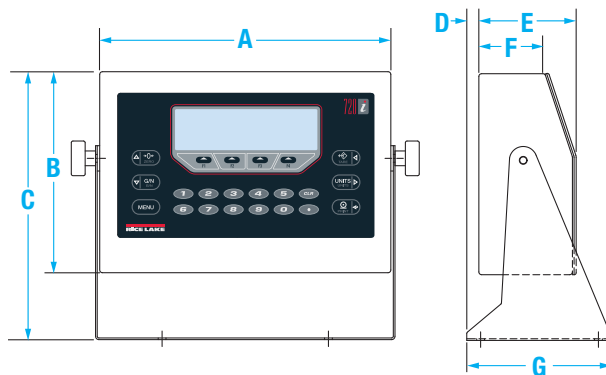


720i PANEL MOUNT DISPLAY DIMENSIONS

A 7.36 in (187 mm)	D 2.45 in (62 mm)	G 6.12 in (155 mm)
B 1.60 in (41 mm)	E 3.88 in (99 mm)	
C 0.59 in (15 mm)	F 0.62 in (16 mm)	

720i PANEL MOUNT CPU ENCLOSURE

(L x W x H): 12.75 x 6.05 x 2.14 in (324 x 154 x 5 mm)



720i UNIVERSAL DIMENSIONS

A 10.50 in (267 mm)	D 0.44 in (11 mm)	G 5.25 in (133 mm)
B 7.25 in (184 mm)	E 3.51 in (89 mm)	
C 9.66 in (245 mm)	F 2.31 in (59 mm)	