

# 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
- RS-485 4 wire
- Fiber optic
- USB
- Wi-Fi
- 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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Programmable HMI Indicator/Controller

## Part Number/Price

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
<b>PCE Software</b>			
101230 †	720i Universal 115/230 VAC	12 lb	Consult
103459 ††	720i Universal 115/230 VAC, CE/OIML marked	12 lb	Consult
107708*	720i Universal, 9-36 VDC	12 lb	Consult
101229**	720i Panel Mount 115/230 VAC	12 lb	Consult
119116**	720i Panel Mount 115/230 VAC, CE/OIML marked	12 lb	Consult
107710*	720i Panel Mount, 9-36VDC	12 lb	Consult
<b>Batch Software</b>			
115447 †	720i Universal 115/230 VAC	12 lb	Consult
115448 ††	720i Universal 115/230 VAC, CE/OIML marked	12 lb	Consult
115449**	720i Panel Mount 115/230 VAC	12 lb	Consult

\*DC/DC converter installed option, not UL approved

\*\*Power cord sold separately



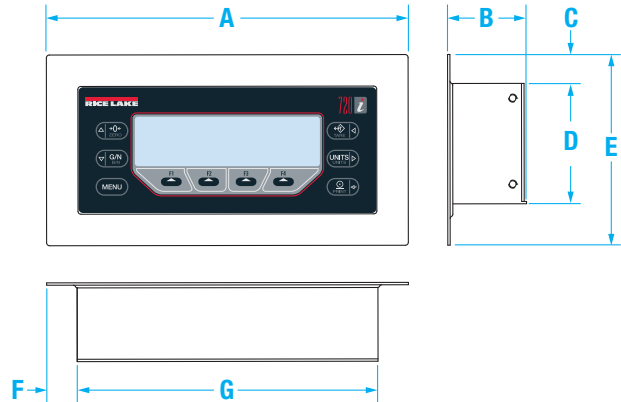
† NEMA 5-15 plug



†† CEE 7/7 plug

## Options/Accessories

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

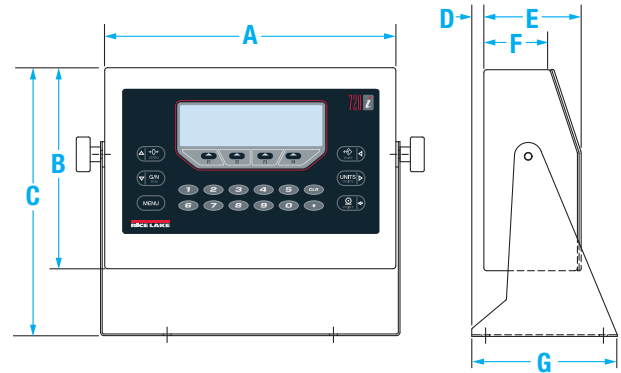


### 720i PANEL MOUNT DISPLAY DIMENSIONS

<b>A</b> 7.36 in (187 mm)	<b>D</b> 2.45 in (62 mm)	<b>G</b> 6.12 in (155 mm)
<b>B</b> 1.60 in (41 mm)	<b>E</b> 3.88 in (99 mm)	
<b>C</b> 0.59 in (15 mm)	<b>F</b> 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

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



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