720i™ Series
Programmable Weight Indicator/Controller

Universal

Standard Features

- LCD display size: panel mount (3.8 in x 1.2 in), universal (5.3 in x 1.5 in)
- Four softkeys
- Truck in/out, 1,000-ID memory (PCE software version)
- 32 setpoints, 26 configurable types (batch software version)
- Process control engine ProAction PCE define conditions and actions
- Data storage onboard, ProAction DBE user-defined
- Eight digital I/O (expandable)
- One 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
- Two full duplex serial ports
- One PS/2 keyboard port
- Header for fiber optic, Ethernet or USB
- Configurable with Revolution® software

Approvals

Measurement
Canada
Approved

CE

c(UL)US
LISTED

c(RU)US

Specifications

Power:
Line voltages: 100–240 VAC
Frequency: 50-60 Hz
DC voltages: 12–24 VDC
Power consumption: 25 W

Excitation Voltage:
10 VDC, 16 x 350Ω or 32 x 700Ω 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 recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8 million counts/8,000,000 23 bit
Display: 1,000,000

System Linearity / PI Rating:
±0.01% full scale

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

Communication Ports:
Two 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 20mA
Optional dual-channel serial expansion boards
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 LCD with adjustable contrast

Keys/Buttons:
Ten-key (panel mount) membrane panel
22- key (universal) membrane panel tactile feel
Optional keyboard connection supported

Temperature Range:
Certified: 14°F to 104°F (-10°C to 40°C)
Operating: 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

EMC Immunity:
EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:
NTEP CC 08-022, Class III/IIL 10,000d
Measurement Canada AM-5677C
Class III/IIIHD 10,000d
CE Marked
UL/cUL Listed (universal)
UL/cUL Recognized (panel mount)

Panel Mount

CPU Enclosure

Part Number/Price

Part #	Description	Est. Weight	Price
PCE Software			
101230 †	720i Universal, 115 VAC	12 lb	$1,325.00
103459 ††	720i Universal, 115–230 VAC, CE	12 lb	$1,325.00
107708*	720i Universal, 12–24 VDC	12 lb	$1,425.00
101229 **	720i Panel Mount ,115–230 VAC	12 lb	$1,325.00
119116 **	720i Panel Mount, 115–230 VAC, CE	12 lb	$1,325.00
107710*	720i Panel Mount, 12–24 VDC	12 lb	$1,425.00
Batch Software			
115447 †	720i Universal, 115 VAC	12 lb	$1,325.00
115448 ††	720i Universal, 115–230 VAC, CE	12 lb	$1,325.00
115449 **	720i Panel Mount, 115–230 VAC	12 lb	$1,325.00

*DC/DC converter installed option, not UL approved
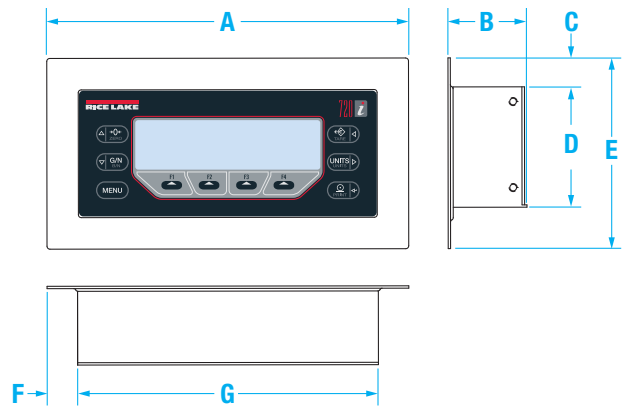
**Power cord sold separately

† US plug (NA) - Type B *†† Euro Plug - Type E*

Options/Accessories

Part #	Description	Price
Option Cards		
67601	Digital I/O, 24-channel	$285.00
67602	Analog output: selectable 0-10 V, 0-20 mA	$310.00
67604	Serial, dual channel	$335.00
93245	USB Port (PC connection only-replaces serial port 2)	$175.00
Network Cards		
77142	Ethernet TCP/IP Port (replaces serial port 2)	$400.00
71986	Ethernet TCP/IP module (installed in option slot)	$400.00
108671	Wireless LAN Card 802.11 A/B (replaces serial port 2)	$570.00
87803	EtherNet/IP®	$800.00
68539	Remote I/O interface	$675.00
68540	Profibus® DP interface	$675.00
68541	DeviceNet™ interface	$675.00
Hardware		
15436	Power cord for panel mount NEMA Type 5-15 plug	$17.00
105382	Power cord for panel mount CEE 7/7 plug	$17.00
19369	Start/stop switch box	$395.00
83569	Clear protective overlay (package of five)	$75.00
118975	Panel mount kit, for universal	$175.00
101923	Remote relay box, does not include relay	$235.00
Manuals & Software		
103121	Installation manual	$25.00
104033	720i toolkit CD	$35.00
107622	720i ProAction Simulator CD	$295.00
Primary Component Parts		
106788	CPU board assembly with PCE firmware	$825.00
195388	CPU board assembly with batching firmware	$825.00
101244	LCD Display (panel mount) transflective	$150.00
102888	LCD Display (universal) transflective	$150.00
101239	Display board (includes display for panel mount)	$400.00
102887	Display board (w/o display for universal)	$300.00
67613	AC power supply 100-240 nominal, 25 watt	$150.00
132791	DC/DC power supply 12-24 VDC nominal, 25 watt	$195.00
101256	Switch membrane for panel mount	$65.00
101257	Switch membrane for universal	$65.00

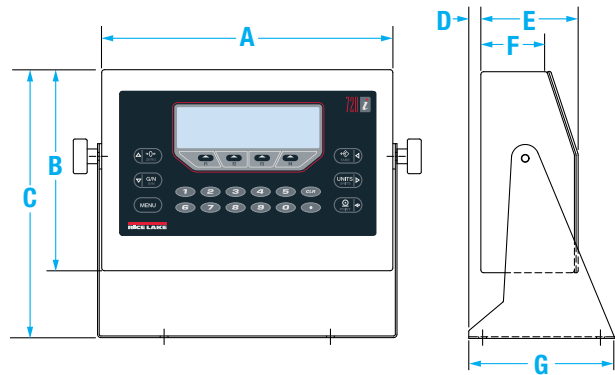*To have your option factory installed, please specify when placing your order.*

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)		