

920i[®] Programmable HMI Indicator/Controller



Standard Features

- Large (4.6" W x 3.4" H, 320 x 240 pixel) back-lit LCD graphical display
- Selectable character sizes from .25" to 1.2"
- 60 configurable operator prompts
- Display up to four scale channels per screen with required legal-for-trade information
- 32 scale accumulators
- Five soft keys with 10 user-defined, 14 preset functions per screen
- 10 programmable display screens
- Millivolt calibration, 5-point linearization and geographical calibration
- NEMA 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- 100 setpoints, 30 configurable setpoint types
- Two slots for option cards
- 1,000-ID truck register for in/out weighing
- 64K user on-board NV RAM
- User programmable 128K flash memory
- Reflash memory to upgrade firmware
- Power for 16, 350Ω load cells per A/D board

Approvals



Specifications

POWER:

Line voltages: 115 or 230 VAC,
Frequency: 50 or 60 Hz
Power consumption:
340 mA, maximum @ 115 VAC (26 W)
240 mA @ 230 VAC (26 W)

EXCITATION VOLTAGE:

10 ± VDC, 16 x 350Ω or 32 x 700Ω
load cells per A/D card

ANALOG SIGNAL INPUT RANGE:

-10 mV to +45 mV

ANALOG SIGNAL SENSITIVITY:

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

A/D SAMPLE RATE:

7.5 to 960 Hz, software selectable

RESOLUTION:

Internal resolution:
8 million counts
Weight display resolution:
9,999,999

SYSTEM LINEARITY:

± 0.01% full scale

DIGITAL I/O:

Four I/O channels on CPU board;
optional 24-channel I/O expansion
boards available

CIRCUIT PROTECTION:

RFI, EMI, ESD protection

SERIAL PORTS:

Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY:

4.6" W x 3.4" H (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

KEYBOARD:

27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:

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

DIMENSIONS:

Universal: 10.5" W x 10.9" H x 4.5" D
(266 W x 215 H x 114 mm D)
Wall Mount: 14.3" W x 18.0" H x 6.75" D
(355 W x 457 H x 171 mm D)
Panel Mount: 11.6" W x 9.2" H x 5.2" D
(294 W x 231 H x 127 mm D)
Deep Universal: 10.75" W x 10.75" H x 5.4" D
(273 W x 273 H x 137 mm D)

WEIGHT:

Universal enclosure: 9.5 lb (4.3 kg)
Wall Mount enclosure: 23.0 lb (10.4 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)
Deep Universal: 11 lb (5.0 kg)

RATING/MATERIAL:

NEMA 4X/IP66, stainless steel

APPROVALS:

NTEP - at 10,000 Divisions, Class III/IIIL, CC# 01-088;
Measurement Canada at 10,000 Divisions, Class III/III HD AM-5426;
OIML approved 6,000/10,000, UK 2658;
CE marked;
UL & C-UL listed (Universal, Deep & Wall Mount Enclosure)
(Custom Wall Mount approved for 508A) (Optional)
Panel Mount UL recognized

WARRANTY:

Two-year limited warranty

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Single Channel - 115 VAC[†]			
67527	920i Universal, stainless steel	10 lb	\$1,750.00
82455	920i Deep Universal	12 lb	1,950.00
69763	920i Wall Mount, stainless steel	23 lb	2,250.00
69764	920i Panel Mount, stainless steel bezel	9 lb	1,750.00
Single Channel - 230 VAC[†]			
67615	920i Universal w/USA 3-pin plug [†]	10 lb	1,750.00
82457	920i Deep Universal	12 lb	1,950.00
69765	920i Wall Mount, stainless steel	23 lb	2,250.00
69766	920i Panel Mount, stainless steel bezel	9 lb	1,750.00
Single Channel - 230 VAC with Euro plug			
69522	920i Universal w/Euro 2-pin plug ^{††}	10 lb	1,750.00
82459	920i Deep Universal ^{††}	12 lb	1,950.00
72133	920i Wall Mount w/Euro 2-pin plug ^{††}	23 lb	2,250.00
72137	920i Panel Mount w/Euro 2-pin plug ^{††}	9 lb	1,750.00
Dual Channel - 115 VAC[†]			
69767	920i Universal, stainless steel	10 lb	1,900.00
82456	920i Deep Universal	12 lb	2,100.00
69770	920i Wall Mount, stainless steel	23 lb	2,400.00
69771	920i Panel Mount, stainless steel bezel	9 lb	1,900.00
Dual Channel - 230 VAC[†]			
69772	920i Universal w/USA 3-pin plug	10 lb	1,900.00
82458	920i Deep Universal	12 lb	2,100.00
69776	920i Wall Mount, stainless steel	23 lb	2,400.00
69777	920i Panel Mount, stainless steel bezel	9 lb	1,900.00
Dual Channel - 230 VAC with Euro plug			
69774	920i Universal w/Euro 2-pin plug ^{††}	10 lb	1,900.00
82460	920i Deep Universal**	12 lb	2,100.00
72134	920i Wall Mount w/Euro 2-pin plug ^{††}	23 lb	2,400.00
72138	920i Panel Mount w/Euro 2-pin plug ^{††}	9 lb	1,900.00
No A-D Channel - 115 VAC[†]			
77790	Universal, without A/D channel	10 lb	1,650.00
93243	Deep Universal, without A/D channel	12 lb	1,850.00
77794	Wall Mount, without A-D channel	23 lb	2,150.00
77792	Panel Mount, without A-C channel	9 lb	1,650.00
No A-D Channel - 230 VAC^{††}			
77791	Universal, without A/D channel	10 lb	1,650.00
93244	Deep Universal, without A-D channel	12 lb	1,850.00
77795	Wall Mount, without A-D channel	23 lb	2,150.00
77793	Panel Mount, without A-D channel	9 lb	1,650.00

 [†]NEMA 5-15 plug pattern
  ^{††}CEE 7/7 plug pattern

Options/Accessories

Option Cards

68532	A/D, single channel	250.00
68533	A/D, dual channel	400.00
67600	Memory, 1MB NV RAM	250.00
67601	Digital I/O, 24-channel TTL output	250.00
67602	Analog output: selectable 0-10V, 0-20 mA	300.00
67603	Pulse input, single channel	250.00
67604	Serial, dual channel	300.00
87697	Analog input +/-10VDC, 0-20 mA & thermocouple	400.00

Network Cards

65383	Ethernet Thin Server (external)	395.00
71986	Ethernet TCP/IP 10/100 Base-T module (internal)	400.00
68539	Allen-Bradley Remote I/O interface	650.00
68540	Profibus DP interface	650.00
68541	DeviceNet™ interface	650.00
87803	Ethernet IP for A-B PLC (internal)	800.00

Expansion Cards

69782***	Two-slot expansion board (wall mount)	245.00
71743**	Two-slot expansion board (panel mount & deep universal)	245.00
69783***	Six-slot expansion board (wall mount)	375.00

** Includes flat ribbon cable and power supply cable to CPU board (panel mount)

*** Includes flat ribbon cable and power supply cable to CPU board (wall mount)

920i® (continued)

PART #	DESCRIPTION	PRICE
<i>Hardware</i>		
96925	Scanner, MS-3204, RS232...☒	\$425.00
93423	DC/DC convertor, 9-36 VDC...☒	150.00
81217	Sun shield...☒	79.00
83569	Clear protective overlay (package of five).....	60.00
70056	Cable, DB9M to DB9F, Straight Cable.....	29.00
93359	PS/2 Keyboard☒	35.00
77788	Fiber optic board, installed in 920i.....	300.00
87608	Reinforcing plate for panel mount.....	30.00
92777	Filter, PreVent™ vent kit☒	25.00
<i>Manuals & Software</i>		
69781	iRev™ Scale Software☒	49.00
72809	920i interchange® database software.....	195.00
67887	Additional installation manual☒	21.00
67888	Additional programming reference	55.00
I/O Relay Modules Sold Separately		
52332	2-channel input relay, 2.5-28 VDC	40.00
52318	2-channel input relay, 120 VAC .☒	40.00
52319	2-channel input relay, 240 VAC .☒	40.00
52316	2-channel output relay, 120-140 VAC @ 2 amp.....	40.00
52317	2-channel output relay, 240-280 VAC @ 7 amp.....	40.00
84698	2-channel output relay "inductive load," 120-140 VAC @ 2 amp	60.00
84699	2-channel output relay "inductive load," 240-280 VAC @ 7 amp	60.00
52312*	8-channel relay rack, relays sold separately	115.00
52314*	16-channel relay rack, relays sold separately	165.00
52315*	24-channel relay rack, relays sold separately	260.00
70780	Cable, 50-pin flat ribbon for digital I/O (for use with wall mount indicator only).....	49.00
70779	Cable, 50-pin round ribbon for digital I/O with cord grip	145.00
72442	Cable, 50-pin round ribbon for digital I/O without cord grip	145.00
N/A	I/O relay rack, external cased.....	Consult factory
* Requires 50-pin flat or round ribbon cable		
** Includes flat ribbon cable and power supply cable to CPU board (panel mount)		
*** Includes flat ribbon cable and power supply cable to CPU board (wall mount)		
Primary Component Parts		
70912	CPU board assembly☒	825.00
67614	Display board assembly☒	265.00
67613	Power supply assembly, 25 watt	130.00
71333	Power supply, 65 watt☒	150.00
66502	Switch panel membrane☒	68.00
72339	3.15A TR5 subminiature fuses, 230 VAC	3.15
71462	3.15A TR5 subminiature fuses, 115 VAC	3.15