

920i®

Programmable HMI Indicator/Controller



STANDARD FEATURES

- Large (4.6in W x 3.4in H, 320 x 240 pixel) back-lit LCD graphical display
- Selectable character sizes from .25in to 1.2in
- 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
- Ten 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
- Local-remote indicators
- Multi range/interval
- Alibi storage
- Audit trail tracking
- Peak hold
- Rate of change

APPROVALS



SPECIFICATIONS

POWER:

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

EXCITATION VOLTAGE:

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

ANALOG SIGNAL INPUT RANGE:

-10mV to +45mV

ANALOG SIGNAL SENSITIVITY:

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

A/D SAMPLE RATE:

7.5 to 960Hz, 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, 20mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20mA output

DISPLAY (W X H):

4.6in x 3.4in (116 W x 86mm 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 (W X H X D):

Universal: 10.5in x 11.2in x 4.5in (266mm x 217mm x 114mm)
Wall Mount: 14.3in x 18.0in x 6.75in (355mm x 457mm x 171mm)
Panel Mount: 11.6in x 9.2in x 5.2in (294mm x 231mm x 127mm)
Deep Universal: 10.75in x 10.75in x 5.4in (273mm x 273mm x 137mm)

WEIGHT:

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

RATING/MATERIAL:

NEMA 4X/IP66, stainless steel

APPROVALS:

NTEP - at 10,000 Divisions, Class III/IIIL, CC# 01-088A5
Measurement Canada at 10,000 Divisions, Class III/II HD AM-5426
OIML approved 6,000/10,000, UK 2658
CE marked
UL & C-UL listed (Universal, Deep and Wall Mount Enclosure)
Custom Wall Mount approved for 508A (Optional)
Panel Mount UL recognized
Panel Mount 810 style not UL recognized

WARRANTY:

Two-year limited warranty

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PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Single Channel - 115VAC†			
67527	920i Universal	10lb	Consult factory
82455	920i Deep Universal	12lb	Consult factory
69763	920i Wall Mount, stainless steel	2lb	Consult factory
69764	920i Panel Mount, stainless steel bezel	9lb	Consult factory
106264	920i Panel Mount, Replace IQ + 810 Panel Mount	12lb	Consult factory
Single Channel - 230VAC†			
67615	920i Universal	10lb	Consult factory
82457	920i Deep Universal	12lb	Consult factory
69765	920i Wall Mount	23lb	Consult factory
69766	920i Panel Mount	9lb	Consult factory
Single Channel - 230VAC with Euro plug ††			
69522	920i Universal	10lb	Consult factory
82459	920i Deep Universal	12lb	Consult factory
72133	920i Wall Mount	23lb	Consult factory
72137	920i Panel Mount	9lb	Consult factory
Single Channel - 9-36VDC			
107713	920i Universal, 25 watt	10lb	Consult factory
107714	920i Deep Universal, 25 watt	12lb	Consult factory
107715	920i Wall Mount, 25 watt	23lb	Consult factory
107716	920i Panel Mount, 25 watt	9lb	Consult factory
Dual Channel - 115VAC†			
69767	920i Universal	10lb	Consult factory
82456	920i Deep Universal	12lb	Consult factory
69770	920i Wall Mount	23lb	Consult factory
69771	920i Panel Mount	9lb	Consult factory
106265	920i Panel Mount, Replaces IQ + 810 Panel Mount	12lb	Consult factory
Dual Channel - 230VAC†			
69772	920i Universal	10lb	Consult factory
82458	920i Deep Universal	12lb	Consult factory
69776	920i Wall Mount	23lb	Consult factory
69777	920i Panel Mount	9lb	Consult factory
Dual Channel - 230VAC with Euro plug††			
69774	920i Universal	10lb	Consult factory
82460	920i Deep Universal	12lb	Consult factory
72134	920i Wall Mount	23lb	Consult factory
72138	920i Panel Mount	9lb	Consult factory
No A-D Channel - 115VAC†			
77790	920i Universal, without A/D channel	10lb	Consult factory
93243	920i Deep Universal, without A/D channel	12lb	Consult factory
77794	920i Wall Mount, without A/D channel	23lb	Consult factory
77792	920i Panel Mount, without A/D channel	9lb	Consult factory
No A-D Channel - 230VAC††			
77791	920i Universal, without A/D channel	10lb	Consult factory
93244	920i Deep Universal, without A/D channel	12lb	Consult factory
77795	920i Wall Mount, without A/D channel	23lb	Consult factory
77793	920i Panel Mount, without A/D channel	9lb	Consult factory

OPTIONS/ACCESSORIES

Option Cards

68532	A/D, single channel	Consult factory
68533	A/D, dual channel	Consult factory
67600	Memory, 1 MB NV RAM	Consult factory
67601	Digital I/O, 24-channel TTL output	Consult factory
67602	Analog output: selectable 0-10V, 0-20mA	Consult factory
103138	Analog output, dual channel 0-10V, 0-20mA	Consult factory
67603	Pulse input, single channel	Consult factory

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67604 Serial, dual channel Consult factory

PART # DESCRIPTION

PRICE

OPTIONS/ACCESSORIES

Option Cards (continued)

87697 Analog input +/-10VDC, 0-20 mA and thermocouple Consult factory



Network Cards

65383 Ethernet Thin Server (external) Consult factory

71986 Ethernet TCP/IP 10/100 Base-T module (internal) Consult factory

98057 Ethernet TCP/IP, wireless Consult factory

68539 Allen-Bradley Remote I/O interface Consult factory

68540 Profibus® DP interface Consult factory

68541 DeviceNet™ interface Consult factory

87803 Ethernet IP for A-B PLC (internal) Consult factory

103136 ControlNet interface Consult factory

Expansion Cards

69782*** Two-slot expansion board (wall mount) Consult factory

71743** Two-slot expansion board (panel mount & deep universal) Consult factory

69783*** Six-slot expansion board (wall mount) Consult factory

Hardware

96925 Scanner, MS-3204, RS232 Consult factory

102526 DC/DC convertor kit, 9-36VDC, nominal 25 watt* (factory installed option) Consult factory

81217 Sun shield Consult factory

83569 Clear protective overlay (package of five) Consult factory

70056 Cable, DB9M to DB9F, Straight Cable Consult factory

93359 PS/2 Keyboard Consult factory

77788 Fiber optic board, installed in 920i Consult factory

87608 Reinforcing plate for panel mount Consult factory

92777 Filter, PreVent™ vent kit PG 7 cord grip Consult factory

19368 Start/stop controls Consult factory

100759 Sunlight viewable display, transfective installed option, replaces transmission display Consult factory

*DC/DC convertor installed option, requires serial tag change, not UL approved

Manuals and Software

69781 iRev™ Scale Software Consult factory

72809 920i interchange® database software Consult factory

67887 Additional installation manual Consult factory

Manuals

102653 Germany Consult factory

105794 French Consult factory

106585 Spanish Consult factory

105793 Italian Consult factory

67888 Additional programming reference Consult factory

Relay Products can be found on page 39

OPTIONS/ACCESSORIES

Primary Component Parts

70912 CPU board assembly Consult factory

67614 Display board assembly Transmission Blue Consult factory

100759 Display board assembly, Transfective Gray, sunlight viewable Consult factory

67613 Power supply assembly, 25 watt Consult factory

71333 Power supply, 65 watt used in Deep, Panel Mount and Wall Enclosures Consult factory

97474 DC/DC converter 9-36 nominal, 25 watt Consult factory

66502 Switch panel membrane Consult factory

72339 3.15A TR5 subminiature fuses, 230 VAC Consult factory

71462 3.15A TR5 subminiature fuses, 115 VAC 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)