

820i Programmable HMI Indicator/Controller

Panel Mount



Universal



Standard Features

- Large (4.6" W x 2.2" H, 320 x 156 pixel) LED back-lit LCD display
- Weight display from .5" to .75"
- Display up to two scales (scale 1, scale 2 and total)
- Five user-defined soft keys
- Weight or millivolt calibration with linearization and geographical compensation
- NEMA 4X/IP66 stainless steel enclosure
- Selectable A-D measurement rate up to 960/second
- Power for 16, 350 ohm load cells
- 100 setpoints, latched or free-running
- Multi-range/Internal
- Peak Hold, Rate of Change
- Audit Trail Tracking and Alibi Software
- One option slot for pluggable options
- 1000 - ID truck register for in/out weighing
- User programmable 256K flash memory
- Onboard data storage 190K
- Downloadable programs
- Visual programming for creating custom programs easily
- 8 digital I/O

Approvals



Specifications

POWER:

Line voltages: 115 or 230 VAC,
Frequency: 50 or 60 Hz
Power consumption: 25 watts maximum

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 @ 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/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 expansion boards available

CIRCUIT PROTECTION:

RFI, EMI, ESD protection

SERIAL PORTS:

Two ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 2: Full duplex RS-232 with handshaking
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output
External keyboard port

OPTIONAL COMMUNICATION:

Ethernet TCP/IP
RS-485-4 wire
Fiber optic
USB

DISPLAY:

Viewable area: 4.6" W x 2.2" H (116 W x 55 mm H), 320 x 156 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

KEYBOARD:

28-key membrane panel, tactile feel, 820i will support an 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 11.2" H x 4.5" D (266 W x 217 H x 114 mm D)
Panel Mount: 11.6" W x 9.2" H x 5.2" D (294 W x 231 H x 127 mm D)

WEIGHT:

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

RATING/MATERIAL:

NEMA 4X/IP66, stainless steel

APPROVALS:

NTEP - certified at 10,000 divisions, Class III/III, cc#01-088
Measurement Canada-10,000 divisions, Class III/IIID AM-5426
OIML-6,000/10,000 divisions UK 2658
CE marked
UL /CUL listed (universal)
UL recognized (panel mount)
ROHS compliant

WARRANTY:

Two-year limited warranty

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Single Channel			
91995	820i Universal, 115 VAC†	10 lb	\$1,395.00
91996	820i Universal, 230 VAC†	10 lb	1,395.00
91997	820i Universal, 230 VAC†† CE/OIML	10 lb	1,395.00
93424	820i Panel Mount, 115 VAC†	9 lb	1,395.00
98280	820i Panel Mount, 230 VAC†† CE/OIML	9 lb	1,395.00
Dual Channel			
93011	820i Universal, 115 VAC†	10 lb	1,545.00
93012	820i Universal, 230 VAC†	10 lb	1,545.00
93013	820i Universal, 230 VAC†† CE/OIML	10 lb	1,545.00
93425	820i Panel Mount, 115 VAC†	9 lb	1,545.00
98281	820i Panel Mount, 230 VAC†† CE/OIML	9 lb	1,545.00



†NEMA 5-15 plug pattern



††CEE 7/7 plug pattern

Options/Accessories

Option Cards

67601	Digital I/O, 24-channel	250.00
67602	Analog output: selectable 0-10V, 0-20 mA	300.00
67604	Serial, dual channel	300.00
87697	Analog input +/-10VDC, 0-20 mA & thermocouple	400.00
93245	USB Port (PC connection only-replaces serial port)	125.00

Network Cards

77142	Ethernet TCP/IP Port (replaces serial port 2)	400.00
65383	Ethernet Thin Server (external)	395.00
71986	Ethernet TCP/IP module (installed in option slot)	400.00
98057	Ethernet TCP/IP wireless	650.00
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
103136	ControlNet interface	800.00

Hardware

96925	Scanner, MS-3204, RS232	425.00
102526	DC/DC converter kit*, 9-36 VDC nominal (factory installed option)	150.00
96736	Fiber optic board	300.00
87608	Reinforcing plate for panel mount	30.00
93359	PS/2 Keyboard	35.00
83569	Clear protective overlay (package of five)	60.00
92777	Filter PreVent™ vent kit	25.00
19369	Start/stop switch box	300.00
100758	Sunlight viewable display, transfective installed option, replaces transmission display	100.00

Manuals & Software

93018	Installation manual	21.00
77925	Revolution III scale software	35.00
93019	IRITE IDE software (version 1.0 included with indicator)	95.00

I/O Relay Modules

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
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 panel 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

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

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Primary Component Parts			
102331	CPU board assembly-single channel.....		850.00
102333	CPU board assembly-dual channel.....		995.00
93246	Display board assembly		265.00
67613	Power supply assembly, 25 watt		130.00
97474	DC/DC converter, 9-36 VAC, nominal, 25 watt.....		150.00
93247	Switch panel membrane		68.00