

820i™ Series

Programmable Weight Indicator/Controller



Standard Features

- LCD backlit display (W x H) 4.6 in x 2.2 in
- One small option slot and one large option slot for pluggable options
- Weight display from 0.5 in to 0.75 in
- Display up to two scales (scale 1, scale 2 and total)
- Five user-defined softkeys
- Weight or millivolt calibration with linearization and geographical compensation
- NEMA Type 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- Power for 16, 350ohm load cells
- 100 setpoints, latched or free-running
- Multi-range/Internal
- Peak hold, rate of change
- Audit trail tracking and Alibi™ software
- 1,000-ID truck register for in/out weighing
- User programmable 256K flash memory
- Onboard data storage 190K
- Downloadable programs
- Visual programming for easily creating custom programs
- Eight digital I/O (expandable)
- Configurable with Revolution® software

Optional Communication:

- Ethernet TCP/IP (serial port 2 header)
- RS-485 four wire
- Fiber optic
- USB
- Wi-Fi
- Network Protocols

Approvals



Measurement
Canada
Approved



Specifications

Power:

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

Excitation Voltage:

10VDC, 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 typical at 120 Hz (manual only)
4.0 μV/graduation typical at 960 Hz (manual only)
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: 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

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, 2-wire, RS-485,
20 mA output
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:

Viewable area (W x H): 4.6 in x 2.2 in (116 mm x
55 mm), 320 x 156 pixel LCD with adjustable contrast
Transmissive display
Transflective display (optional)

Keys/Buttons:

28-key membrane panel, tactile feel, external
keyboard support
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:

9.5 lb (4.3 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 01-088, Class III/II 10,000d
Measurement Canada AM-5426 Class III/IIHD 10,000d
OIML R76/1992-GB1-04.02, Class III 6,000d
EU Test Certificate GB-1140
UL/cUL Listed
ROHS compliant
CE Marked

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Part Number/Price

Part #	Description	Est. Weight	Price
Single Channel			
91995†	820i Universal, 115 VAC	10 lb	Consult
91996†	820i Universal, 115–230 VAC	10 lb	Consult
91997††	820i Universal, 115–230 VAC CE/OIML	10 lb	Consult
107711*	820i Universal, 12–24 VDC nominal	10 lb	Consult
Dual Channel			
93011†	820i Universal, 115 VAC	10 lb	Consult
93012†	820i Universal, 115–230 VAC	10 lb	Consult
93013††	820i Universal, 115–230 VAC CE/OIML	10 lb	Consult

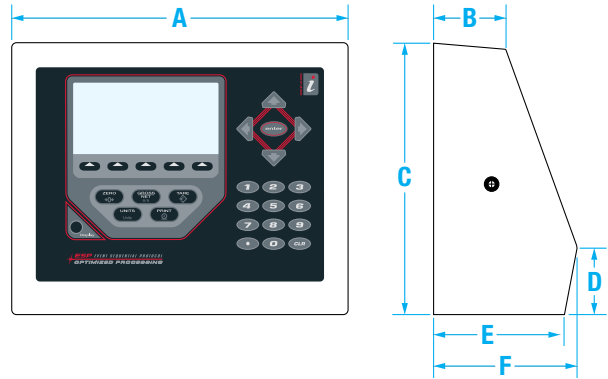
*DC/DC converter installed option, not UL approved



Options/Accessories

Part #	Description	Price
Option Cards		
67601	Digital I/O, 24-channel	Consult
67602	Analog output: selectable 0-10 V, 0-20 mA	Consult
103138	Analog output, dual channel 0-10 V, 0-20 mA	Consult
67604	Serial, dual channel	Consult
87697	Analog input +/-10 VDC, 0-20 mA & thermocouple	Consult
93245	USB Port (PC connection only-replaces serial port)	Consult
Network Cards		
77142	Ethernet TCP/IP Port (serial port 2 header)	Consult
65383	Ethernet thin server (external)	Consult
71986	Ethernet TCP/IP module (installed in option slot)	Consult
98057	Wireless LAN card 802.11 B/G (installed in option slot)	Consult
108671	Wireless LAN card 802.11 A/B (serial port 2 header)	Consult
68539	Remote I/O interface	Consult
68540	Profibus® DP interface	Consult
68541	DeviceNet™ interface	Consult
87803	EtherNet/IP®	Consult
103136	ControlNet® interface	Consult
Hardware		
83569	Clear protective overlay (package of 5)	Consult
19369	Start/stop switch box	Consult
101923	Relay box enclosure, does not include relay	Consult
Manuals and Software		
93018	Installation manual	Consult
77925	Revolution® scale software	Consult
93019	IRITE IDE software (version 1.0 included with indicator)	Consult
Primary Component Parts		
102331	CPU board assembly-single channel includes display	Consult
102333	CPU board assembly-dual channel includes display	Consult
93246	Display, transmissive blue	Consult
67613	AC power supply 100-240 nominal, 25 watt	Consult
132791	DC/DC power supply, 12-24 VDC, nominal, 25 watt	Consult
93247	Switch panel membrane	Consult

Relay products can be found on page 544



820i Universal Dimensions

A	10.56 in (268 mm)	C	8.5 in (216 mm)	E	4.12 in (105 mm)
B	2.28 in (58 mm)	D	2.16 in (55 mm)	F	4.5 in (127 mm)