

# 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 16 350 -ohm load cells
- 100 setpoints, latched or free-running
- Multi-range/interval
- Peak hold, rate of change
- Audit trail tracking and Alibi™ software
- 1,000-ID truck register for in/out weighing
- User programmable 256 K flash memory
- Onboard data storage 190 K
- Downloadable programs
- Visual programming for easily creating custom programs
- Eight digital I/O (expandable)
- Configurable with Revolution® software

## Approvals



Measurement  
Canada  
Approved



## 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:

± 0.01% full scale

### Digital I/O:

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

### Communication Ports:

Two ports on CPU board support up to 115,200bps  
Port 2: Full duplex RS-232 with handshaking  
Port 4: Full duplex RS-232, 2-wire RS-485,  
20 mA  
Keyboard port hard wired  
Optional dual-channel serial expansion  
boards  
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

### 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/IIL 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

# 820i™ Series

Programmable Weight Indicator/Controller

## Part Number/Price

Part #	Description	Est. Weight	Price
<b>Single Channel</b>			
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
<b>Dual Channel</b>			
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



† US plug (NA) - Type B



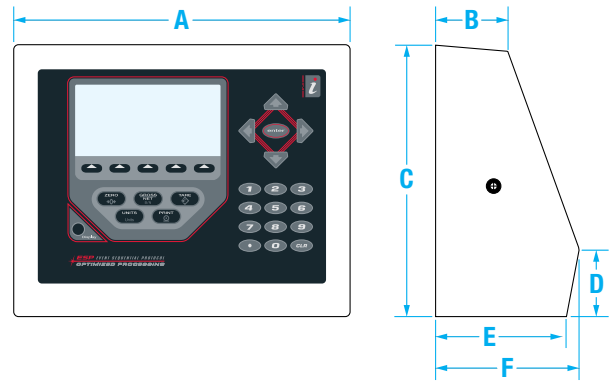
†† Euro Plug - Type E

## Options/Accessories

Part #	Description	Price
<b>Option Cards</b>		
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
<b>Network Cards</b>		
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
<b>Hardware</b>		
83569	Clear protective overlay (package of 5)	Consult
19369	Start/stop switch box	Consult
101923	Relay box enclosure, does not include relay	Consult
<b>Manuals and Software</b>		
93018	Installation manual	Consult
77925	Revolution™ scale software	Consult
93019	IRITE IDE software (version 1.0 included with indicator)	Consult
<b>Primary Component Parts</b>		
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 550

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



## 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)