# 820i™ Series
Programmable Weight Indicator/Controller

**LIMITED STOCK AVAILABLE**

## 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 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

## Approvals

## 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 350 ohm or 32 x 700 ohm 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/IIIHD 10,000d
EU Test Certificate GB-1140
UL/cUL Listed
ROHS compliant
CE Marked

## 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 |

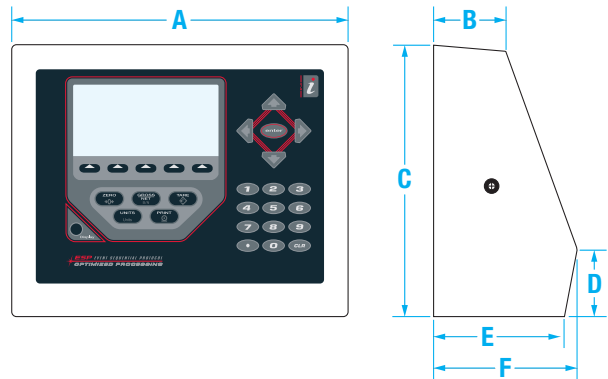*DC/DC converter installed option, not UL approved*

† *US plug (NA) - Type B*    †† *Euro Plug - Type E*

## 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 |
| **206271** | Wireless LAN card 802.11 B/G (installed in option slot) | Consult |
| **206272** | 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® interface | 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 |
| **93359** | Keyboard, QWERTY PS/2 connector | Consult |
| **Manuals and Software** | | |
| **93018** | Installation manual | 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 508*
*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) |

INDICATORS / CONTROLLERS

www.ricelake.com | Phone: 800-472-6703

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