

**820i**® Programmable HMI Indicator/Controller

Panel Mount



Universal

**STANDARD FEATURES**

- Large (4.6 in W x 2.2 in H, 320 x 156 pixel) back-lit LCD display
- Weight display from .5 in to .75 in
- 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 easily creating custom programs
- Eight digital I/O

**APPROVALS**Measurement  
Canada  
Approved**SPECIFICATIONS****Power:**

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

**Excitation Voltage:**

10VDC, 16 x 350 Ω or 32 x 700 Ω 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 (W x H):**

Viewable area: 4.6 in x 2.2 in (116 mm x 55 mm), 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 (W x H x D):**

Universal: 10.5 x 11.2 x 4.5 in

(266 x 217 x 114 mm)

Panel Mount: 11.6 x 9.2 x 5.2 in

(294 x 231 x 127 mm)

**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

**Warranty:**

Two-year limited warranty

**Approvals:**

NTEP CC 01-088, Class III/IIL 10,000d

Measurement Canada AM-5426 Class III/IIHD  
10,000d

OIML UK 2658, 6,000/10,000d

CE marked

UL /CUL listed (universal)

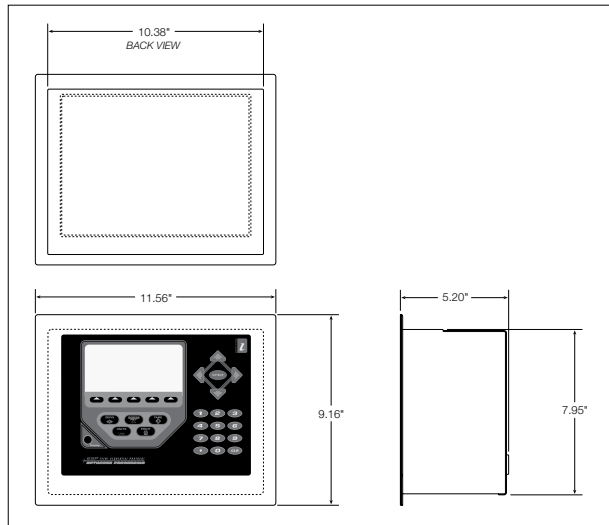
UL recognized (panel mount)

ROHS compliant

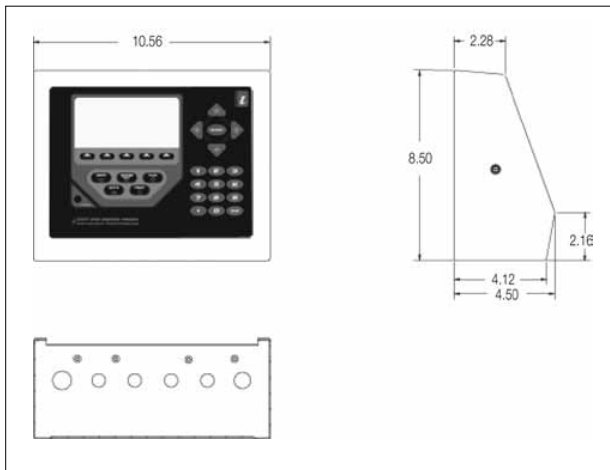
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**PART NUMBER/PRICE**

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
<b>Single Channel</b>			
91995	820i Universal, 115VAC†	10 lb	Consult
91996	820i Universal, 230VAC†	10 lb	Consult
91997	820i Universal, 230VAC†† CE/OIML	10 lb	Consult
107711	820i Universal, 9-36VDC Nominal	10 lb	Consult
93424	820i Panel Mount, 115VAC†	9 lb	Consult
98280	820i Panel Mount, 230VAC††, CE/OIML	9 lb	Consult
107712	820i Panel Mount, 9-36VDC Nominal	9 lb	Consult
<b>Dual Channel</b>			
93011	820i Universal, 115VAC†	10 lb	Consult
93012	820i Universal, 230VAC†	10 lb	Consult
93013	820i Universal, 230VAC†† CE/OIML	10 lb	Consult
93425	820i Panel Mount, 115VAC†	9 lb	Consult
98281	820i Panel Mount, 230VAC††, CE/OIML	9 lb	Consult



820i Panel Mount



820i Universal Mount

**OPTIONS/ACCESSORIES**

PART #	DESCRIPTION	PRICE
<b>Option Cards</b>		
67601	Digital I/O, 24-channel	Consult
67602	Analog output: selectable 0-10V, 0-20 mA	Consult
103138	Analog output, dual channel 0-10V, 0-20 mA (requires version 1.04)	Consult
67604	Serial, dual channel	Consult
87697	Analog input +/-10VDC, 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	Allen-Bradley Remote I/O interface (limited supply)	Consult
68540	Profibus® DP interface	Consult
68541	DeviceNet™ interface	Consult
87803	EtherNet IP (specifically for A-B PLC)	Consult
103136	ControlNet interface	Consult
<b>Hardware</b>		
96925	Scanner, MS-3204, RS232	Consult
96736	Fiber optic board	Consult
93359	PS/2 Keyboard	Consult
83569	Clear protective overlay (package of five)	Consult
92777	Filter PreVent™ vent kit	Consult
19369	Start/stop switch box	Consult
100758	Sunlight viewable display, transfective installed option, replaces transmissive display	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	Consult
102333	CPU board assembly-dual channel	Consult
93246	Display board assembly	Consult
67613	Power supply assembly, 25 watt	Consult
97474	DC/DC converter, 9-36VAC, nominal, 25 watt	Consult
93247	Switch panel membrane	Consult

Relay Products can be found on page 363



†† CEE 7/7 plug



† NEMA 5-15 plug