



STANDARD FEATURES

- Large (4.6in W x 2.2in H, 320 x 156 pixel) LED back-lit LCD display
- Weight display from .5in to .75in
- 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
- Eight 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 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: 4.6in x 2.2in (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: 10.5in x 11.2in x 4.5in
(266 mm x 217 mm x 114 mm)
Panel Mount: 11.6in x 9.2in x 5.2in
(294 mm x 231 mm 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

APPROVALS:

NTEP - certified at 10,000 divisions, Class III/III,
CC#01-088A5
Measurement Canada-10,000 divisions, Class III/
IIIHD 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

T #	DESCRIPTION	EST. SHIP WEIGHT
Single Channel		
91995.....	820i Universal, 115VAC†	10 lb
91996.....	820i Universal, 230VAC†	10 lb
91997.....	820i Universal, 230VAC†† CE/OIML.....	10 lb
107711.....	820i Universal, 9-36VDC Nominal.....	10 lb.....
93424.....	820i Panel Mount, 115VAC†	9 lb
98280.....	820i Panel Mount, 230VAC††, CE/OIML	9 lb
107712.....	820i Panel Mount, 9-36VDC Nominal	9 lb.....

Dual Channel		
93011.....	820i Universal, 115VAC†	10 lb
93012.....	820i Universal, 230VAC†	10 lb
93013.....	820i Universal, 230VAC†† CE/OIML.....	10 lb
93425.....	820i Panel Mount, 115VAC†	9 lb
98281.....	820i Panel Mount, 230VAC††, CE/OIML	9 lb

OPTIONS/ACCESSORIES

Option Cards

67601	Digital I/O, 24-channel	
67602	Analog output: selectable 0-10V, 0-20mA	
103138.....	Analog output, dual channel 0-10V, 0-20mA	
67604	Serial, dual channel.....	
87697.....	Analog input +/-10VDC, 0-20mA & thermocouple.....	
93245.....	USB Port (PC connection only-replaces serial port).....	

Network Cards

77142.....	Ethernet TCP/IP Port (replaces serial port 2)	
65383.....	Ethernet Thin Server (external)	
71986.....	Ethernet TCP/IP module (installed in option slot)	
98057.....	Ethernet TCP/IP wireless	
68539.....	Allen-Bradley Remote I/O interface	
68540.....	Profibus® DP interface	
68541.....	DeviceNet™ interface.....	
87803.....	Ethernet IP for A-B PLC (internal)	
103136.....	ControlNet interface.....	

Hardware

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

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

Manuals and Software

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