

Instrumentation/Process Control

820i®

Programmable HMI Indicator/Controller



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 userdefined 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 on/off-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:

10VDC, 16 x 350Ω or 32 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:

-10mV to +45mV

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, 20mA 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 (116mm x 55mm),
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: 9.5lb (4.3kg)
Panel Mount enclosure: 8.5lb (3.9kg)

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