

820i Programmable HMI Indicator/Controller



Standard Features

- Large (4.6" W x 2.2" H, 320 x 156 pixel) LED back-lit LCD display
- Weight display from .5" to .75"
- 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
- 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

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 350Ω or 32 x 700Ω
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:

Viewable area: 4.6" W x 2.2" H (116 W x 55
mm H), 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:

Universal: 10.5" W x 10.9" H x 4.5" D
(266 W x 215 H x 114 mm D)
Panel Mount: 11.6" W x 9.2" H x 5.2" D
(294 W x 231 H x 127 mm D)

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#01-088

Measurement Canada-10,000 divisions,
Class III/II/HD AM-5426

OIML-6,000/10,000 divisions UK 2658
CE marked

UL /CUL listed (universal)
UL recognized (panel mount)

ROHS compliant