

# Instrumentation/Process Control

## 920i®

## Programmable HMI Indicator/Controller



### STANDARD FEATURES

- Large (4.6n W x 3.4n H, 320 x 240 pixel) back-lit LCD graphical display
- Selectable character sizes from .25in to 1.2in
- 60 configurable operator prompts
- Display up to four scale channels per screen with equied legal-for-trade information
- 32 scale accumulators
- Five soft keys with 10 user defined, 14 preset functions per screen
- Ten programmable display screens
- Millivolt calibration, 5-point linearization and geographical calibration
- NEMA 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- 100 setpoints, 30 configurable setpoint types
- Two slots for option cards
- 1,000-ID truck register for in/out weighing
- 64K user on-board NV RAM
- User programmable 128K flash memory
- Reflash memory to upgrade firmware
- Power for 16, 350 load cells per A/D board
- Local-remote indicators
- Multi range/interval
- Alibi storage
- Audit trail tracking
- Peak hold
- Rate of change

### APPROVALS



### SPECIFICATIONS

#### POWER:

Line voltages: 115 or 230 VAC  
Frequency: 50 or 60 Hz  
Power consumption: 340mA, maximum @ 115VAC (26W) 240mA @ 230VAC (26W)

#### EXCITATION VOLTAGE:

10 ± VDC, 16 x 350Ω or 32 x 700Ω load cells per A/D card

#### ANALOG SIGNAL INPUT RANGE:

-10mV to +45mV

#### ANALOG SIGNAL SENSITIVITY:

0.3µV/graduation minimum @ 7.5Hz  
1.0µV/graduation typical @ 120Hz  
4.0µV/graduation typical @ 960Hz

#### A/D SAMPLE RATE:

7.5 to 960Hz, software selectable

#### RESOLUTION:

Internal resolution: 8 million counts  
Weight display resolution: 9,999,999

#### SYSTEM LINEARITY:

± 0.01% full scale

#### DIGITAL I/O:

Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

#### CIRCUIT PROTECTION:

RFI, EMI, ESD protection

#### SERIAL PORTS:

Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available  
Port 1: Full duplex RS-232  
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector  
Port 3: Full duplex RS-232, 20mA output  
Port 4: Full duplex RS-232, 2-wire RS-485, 20mA output

#### DISPLAY (W X H):

4.6in x 3.4in (116 W x 86mm H), 320 x 240 pixel  
VGA Liquid Crystal Display (LCD) module with adjustable contrast

#### KEYBOARD:

27-key membrane panel, tactile feel, PS/2 port for 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 (266mm x 217mm x 114mm)  
Wall Mount: 14.3in x 18.0in x 6.75in (355mm x 457mm x 171mm)  
Panel Mount: 11.6in x 9.2in x 5.2in (294mm x 231mm x 127mm)  
Deep Universal: 10.75in x 10.75in x 5.4in (273mm x 273mm x 137mm)

#### WEIGHT:

Universal enclosure: 9.5lb (4.3kg)  
Wall Mount enclosure: 23.0lb (10.4kg)  
Panel Mount enclosure: 8.5lb (3.9kg)  
Deep Universal: 11lb (5.0kg)

#### RATING/MATERIAL:

NEMA 4X/IP66, stainless steel

#### APPROVALS:

NTEP - at 10,000 Divisions, Class III/IIIL, CC# 01-088A5  
Measurement Canada at 10,000 Divisions, Class III/III HD AM-5426  
OIML approved 6,000/10,000, UK 2658  
CE marked  
UL & C-UL listed (Universal, Deep and Wall Mount Enclosure)  
Custom Wall Mount approved for 508A (Optional)  
Panel Mount UL recognized

#### WARRANTY:

Two-year limited warranty