920i Digital Weight Indicator

920i is easy to use and is truly the first of its kind to blend revolutionary user interfaces, total flexibility and ultimate processing performance with the simplicity of a basic weight meter.

Programmable keys provide instant access to frequently used functions such as selecting a formula, starting a batch, beginning a data collection sequence, or searching or sorting a file. When process changes, soft keys can easily be modified in the field.

From simple transaction and inventory records to complex data manipulation, the 920i will manage critical information in a way that best fits. Battery-backed memory allows customize database files to store information like id numbers, transactions, formulas, label formats, and PLUs. With up to 14MB optional memory.

Option Cards:

- Digital I/O 24, channel
- A/D dual or single channel
- Analog output selectable (0-10V, 4-20mA)
- Memory module, 1MN
- Two channel serial (accommodates RS-232, RS-485 and 20mA current loop)
- Expansion board (2 and 6 port)

Network Cards:

- Ethernet TCP/IP 10/100 Base-T module
- Allen-Bradley Remote I/O interface
- Profibus DP interface
- DeviceNet interface
- Ethernet IP for A-B PLC
- ControlNet interface

Measurement Canada Approved

Standard Features:

- Large 4.6” W x 3.4” H, 320 x 240 pixel back-lit LCD graphical display
- Selectable character sizes from .25” to 1.2”
- Display up to four scale channels with required Legal-for-Trade information
- 32 scale accumulators
- Five displayed soft keys with 10 user-defined and 14 preset functions
- Front panel or serial configuration/calibration
- NEMA 4X/IP66 stainless steel enclosure
- Four bi-directional communication ports
- Operator prompts
- Four on-board digital I/O
- 100 set-points
- Two option card slots
- 1000-ID truck registers for in/out weighing
- Programmable ticket formats
- ESP event-driven processing
- User programmable 128K flash memory
- Power for 16 (350 ohm) load cells per channel or 32 total per A/D option card

TECH WEIGH

1004 Reder Road / Griffith, IN 46319 / 219.924.3366 / www.techweigh.com

LINE VOLTAGES:
115 or 230 VAC, high pot test

FREQUENCY:
50 or 60 Hz

POWER CONSUMPTION:
340 mA, maximum @ 115 VAC (26 W)
240 mA @ 230 VAC (26 W)

FUSING:
115 VAC: 2 x 400 mA TR5 subminiature fuses Wickman Time-Lag 19374 Series. UL Listed, CSA Certified and Approved

230 VAC/North American: 2 x 315 mA TR5 subminiature fuses Wickman Time-Lag 19372 Series. UL Listed, Semco and VD Approved

FULL SCALE INPUT SIGNAL:
Up to 70 mV

EXCITATION VOLTAGE:
10 ± 0.5 VDC, 16 x 350Ω or 32 x 700Ω load cells per A/D card

SENSE AMPLIFIER:
Differential amplifier with 4 and 6 wire sensing

ANALOG SIGNAL INPUT RANGE:
-10 mV to +70 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

INPUT IMPEDANCE:
>35MΩ typical

INTERNAL RESOLUTION:
8,000,000 counts/8,000,000 23 bit

WEIGHT DISPLAY RESOLUTION:
9,999,999

INPUT SENSITIVITY:
10 nV per internal count

SYSTEM LINEARITY:
± 0.01% full scale

ZERO STABILITY:
± 150 nV/°C, maximum

SPAN STABILITY:
± 3.5ppm/°C, maximum

CALIBRATION METHOD:
Software, contents stored in flash memory

INPUT VOLTAGE DIFFERENTIAL:
± 800mV referenced to earth ground

INPUT OVERLOAD:
Load cell signal lines +/- 10V continuous, ESD protected

RFI/EMI PROTECTION:
Signal, excitation and sense lines protected

** Separate enclosure for expanding beyond two option card slots (universal and desktop)*
*** Includes flat ribbon cable and power supply cable to CPU board (panel mount)*
**** Includes flat ribbon cable and power supply cable to CPU board (wall mount)*

ANALOG OUTPUT:
Option card, 16 bit resolution DAC
Load resistance: 1.1KΩ minumum
Voltage output: 0 – 10 VDC
Current output: 0 – 20 mA
External loop resistance: 840Ω maximum

MICROCOMPUTER:
Motorola ColdFire® MCF5307 main processor @ 90 MHz

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

DIGITAL FILTER:
Software selectable: 1–256, enhanced Rattletrap® hybrid digital filtering

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, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY:
4.6" W x 3.4" H (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast, 75 Hz scan rate 26,000 cd/m² brightness

KEYBOARD:
27-key membrane panel, 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)

STORAGE TEMPERATURE:
14°F to 158°F (-10°C to +70°C)

HUMIDITY:
0-95% relative humidity

DIMENSIONS:
Universal: 10.5" W x 11.5" H x 4.5" D (266 W x 215 H x 114 mm D)
Desktop: 10.5" W x 4.5" H x 8.5" D (266 W x 114 H x 215 mm D)
Wall Mount: 14.0" W x 18.0" H x 6.75" D (355 W x 457 H x 171 mm D)
Panel Mount: 11.6" W x 9.1" H x 5.0" D (294 W x 231 H x 127 mm D)

WEIGHT:
Universal enclosure: 9.5 lb (4.3 kg)
Desktop enclosure: 7.8 lb (3.5 kg)
Wall Mount enclosure: 23.0 lb (10.4 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
NTEP certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 01-088; Measurement Canada; CE marked; TUV; OIML approved, UK 2658; UL & CUL listed (Universal & Desktop) (Wall Mount approved for 508A industrial control panel) (Panel Mount recognized); OIML 6000/10,000 division 5, UK 2658

WARRANTY:
2-year limited warranty

TECH WEIGH