

# Specifications

## TECHNICAL SPECIFICATIONS

Operating environment: 32°F to 122°F (0°C to 50°C) at <75% relative humidity

Display size: 5 inches (diagonal)

Battery: 6 x AA (Battery life based on alkaline type)

Battery life (SMAN2): Approx. 500 hours (without backlight)

Battery life (SMAN3): Approx. 135 hours (without backlight)

Low battery indication: is displayed when the battery voltage drops below the operating level

Auto Shut off: 30 minutes of inactivity (switchable)

### Pressure

Connector Type: Standard 1/4 NPT male flare fitting

Resolution: 0.1 psi/inHg; 1 kPa/cmHg

Accuracy: 29" HgV to 0" HgV:  $\pm 0.2$ " HgV,

74 cmHgV to 0 cmHgV:  $\pm 0.4$  cmHgV,

0 to 200 Psig:  $\pm 1$  Psi, 0 to 1378 KPa:  $\pm 7$  KPa,

200 to 500 Psig:  $\pm 0.3\% + 1$  Psi, 1378 to 3447 KPa:  $\pm 0.3\% + 7$  Kpa

Range: 29" HgV to 500 Psig (English), 74 cmHgV to 0 to 4000 KPa (Metric)

Maximum Overload pressure: 800 psig

Units: Psig, kPa, inHg, and cmHg

### Microns for Vacuum (SMAN3 only)

Connector Type: Standard 1/4 NPT male flare fitting

Range: 50 to 9999 microns of mercury

Resolution: 1 micron (50 to 2000 microns), 250 microns (2001 to 5000 microns), 500 microns (5001 to 8000 microns),

1000 microns (8001 to 9999 microns)

Accuracy:  $\pm 10\%$  or  $\pm 10$  microns, whichever is greater (50 to 1000 microns)

Maximum Overload pressure: 500 psig

Units: Microns of mercury

### Temperature

Sensor Type: K-Type thermocouple

Range: -76°F to 999.9°F (-60°C to 537.0°C)

Resolution: 0.1°F/°C

Accuracy:  $\pm (1.0^\circ\text{F})$  -76°F to 199.9°F;

$\pm (0.5^\circ\text{C})$  -60°C to 93°C

$\pm (2.0^\circ\text{F})$  200°F to 999.9°F;

$\pm (1.0^\circ\text{C})$  93°C to 537.0°C

Note: accuracies after field calibration.

### Refrigerants

The P-T charts of the following refrigerants come pre-programmed into your SMAN. In your SMAN the refrigerants are listed in order of most commonly used. Here, they are listed in numerical order for easy reference:

R11, R113, R114, R123, R124, R125, R13, R134A, R22, R23, R401A(MP39), R401B, R402A, R402B, R404A,

R406A, R407A, R407C, R408A, R409A, R410A, R414B(Hotshot), R416A, R417A, R420A, R421A, R421B, R422A, R422B(NU22B), R422C(Oneshot), R422D, R424A, R434A(RS-45), R438A(M099), R500., R502, R503, R507A