

Technical Data

Meter

- 4 Digit LCD Text Display
- 13 mm Character Height
- Display of Pressure, Temperature, Flow and Rotational Speed
 - Pressure in PSI and Bar
 - Temperature in °F and °C
 - Flow in GPM and l/min.
 - Rotational Speed in RPM
- Automatic Sensor Recognition
- 2 ms Scanning Rate

Housing

- ABS Plastic Housing
- Protective Rubber Cover
- Carrying Strap
- Integral Stand

Inputs

- Two 4-pin Round plugs
- 0-3 Volts (R=470 kΩ)
- 12 Bit A/D Converter

Ambient Conditions

- Operating Temperatures 32°F to 122°F (0°C to 50°C)
- Storage Temperatures -4°F to 140°F (-20°C to 60°C)

Output (SCM-150-1-02 Level 2 meter only)

- SC Infrared Interface (RS232C) to transfer measured values to a PC. The SCDA-150 software and adapter kit is required for data transfer to a PC.

Power Requirements

- SCM-150-1-01 (Level 1)
 - 9 Volt Alkaline Battery Only
 - 20 ma Current Consumption
- SCM-150-1-02 (Level 2)
 - 9 Volt Rechargeable Ni-MH Battery
 - Recharge circuit for use with external power supply.
 - Use part number SCSN-450 for operating the meter.

Pressure Transducers

Pressure Ranges

- PS *** TA-015 -14.5 to 220 PSI (-1 to 15 Bar)
- PS *** TA-100 0 to 1450 PSI (0 to 150 Bar)
- PS *** TA-1000 0 to 14,500 PSI (0 to 1000 Bar)

Note: Transducer coupler must be specified when being ordered. Maximum pressure rating is based on diagnostic coupling selected.

Construction

- Piezo-Resistive Circuitry
- Stainless Steel Housing
- Stainless Steel Diaphragm
- Fluorocarbon Seals
- Integrated Cable Assembly

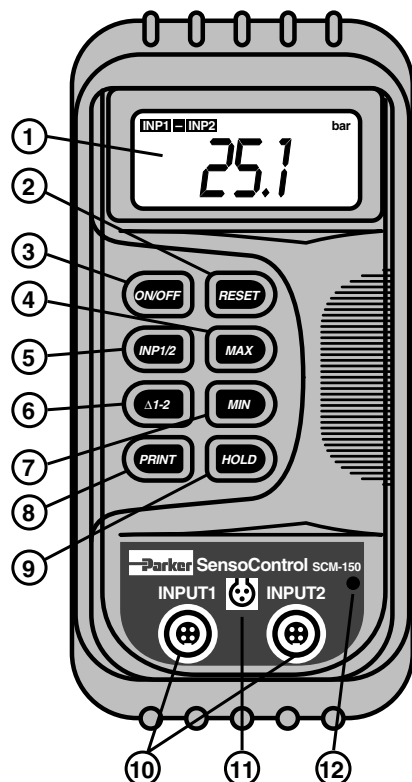
Power Requirement

- 7-12 Volt DC Excitation Voltage
- 5 ma Current Requirement

Output

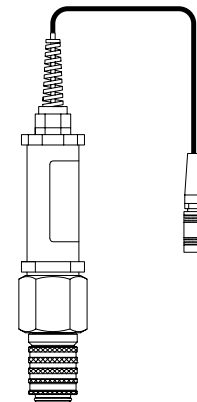
- 0-3 Volts DC
- 1 ms Response Time
- 5 FS/a Long Term Stability
- ± .03 FS Temperature Error
- ± .08 FS Reproducibility
- .5% Accuracy Full Scale

Functional Description SCM-150



- 1 Measurement Display (4-digit)
- 2 RESET resets minimum and maximum values to zero
- 3 ON/OFF Switch
- 4 MAX displays maximum value since meter was last reset or turned on
- 5 INP1/2 selects whether meter will display measurement from Input 1 or Input 2
- 6 Δ1-2 displays the differential value of Input 1 minus Input 2
- 7 MIN displays minimum value since meter was last reset or turned on
- 8 PRINT* sends displayed measurements to PC or printer
- 9 HOLD freezes displayed measurement
- 10 Analog Inputs (4 pin)
- 11 External Power Supply Socket*
- 12 Data Output* infrared interface to transmit measured values to PC

* SCM-150-1-02 only



Transducer shown with PD Style Coupler option.

Temperature Probe

- SCT-150-74-08 -13°F to 257°F (25°C to 125°C)

