The Parker Service Master Easy Diagnostic Meter

Fast Measuring & Analysis Capability... coupled with a more efficient and user-friendly interface. This multi-channel instrument offers accuracy, expanded memory and intuitive performance to meet your most demanding expectations.

Offering the latest in sensor recognition technology, the Parker Service Master Easy gives you the ability to measure and store data relating to pressure, flow, temperatures and rotational speed simultaneously, or switch between them with ease.

On site data storage – has never been easier or as powerful. The 0.25 ms scanning rate catches even the most instantaneous pressure spikes, flow surges and temperature changes. More than one million data points allow you to store or download the data to your PC.

Model SCM-340-2-02 Features:
• Ideal for both hydraulic and pneumatic systems
• Easy, intuitive operation
• Large legible display
• Auto sensor recognition
• MIN/MAX Memory

Contact Information:
Parker Hannifin Corporation
Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427
phone 763 544 7781
fax 763 544 3416
qcd_sales@parker.com
www.parker.com/quickcouplings

Code for Ordering Kits:
PDSME XX - X - XX - XX

Additional Transducers
Code for Ordering Separately:
PD XXXX - XXX

Flow Sensors
Code for Ordering Separately:
SCFT-XXXX - XXX

The Parker Service Master Easy
340 Test Meter Kit Includes:
The Case .................................. SC-690
The Parker Service Master Easy Meter ..... SCM-340-2-02
2 Transducers (see ordering Information below)
2 Transducer Cables (10 Ft.) ............ SCK-102-03-02
Power Supply ........................... SCSN-450
SensoWin Software 4.03 .................. SC-CD 4082
USB Computer Cable.................. SCK-315-02-34
Operating Manual (incl. with the Parker Service Master Easy Meter)

CODE DESCRIPTION
01 0 – 115 PSI  Blue
06 0 – 870 PSI  Green
15 0 – 2715 PSI  Yellow
30 0 – 1625 PSI  Red

CODE DESCRIPTION
01 5 – 115 PSI  Blue
06 5 – 870 PSI  Green
15 5 – 2715 PSI  Yellow
30 5 – 1625 PSI  Red

CODE DESCRIPTION
PD Style
PDP Style
EMA Style (Female)

Pressure Range
-14.5 – +145 PSI
0 – 870 PSI
0 – 2715 PSI
0 – 1625 PSI

Flow Range
0 – 4 GPM (0 – 15 LPM)
1 – 15 GPM (4 – 60 LPM)
30 – 60 GPM (100 – 300 LPM)
900 – 1800 GPM (300 – 600 LPM)

Flow Sensors SCFT-XXXX-XX

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The Parker Service Master Easy Diagnostic Meter

**Function Descriptions**

- **30 mm LCD Display**
- **3 Line/40 Character**
- **4 Year Battery Life**
- **High Visibility (Contrast Level 6)**
- **10 cm x 10 cm (4 x 4 inch)**

**Technical Data**

- **Drive Board**: 7-12 VDC ( Resistive, Capacitive, Pulse, or Switching)
- **Interface**: USB (for Windows 98SE/2000/XP)
- **Recharge Circuit**: for use with external Ni-MH battery pack.
- **Passed CE Mark and UL safety standards**

**Power Supply Connection**

- **Auto Power Off**
- **Flow Runner Out (display only)**
- **On Line Data Transfer**

**Functions**

- **Burst Mode 0.25 ms (Input 1 only)**
- **Selectable Scanning Rate in 1 ms Intervals**
- **Automatic Sensor Recognition for Connectors**

**Four 5-pin push-pull Style Inputs**

- **Rotational Speed in RPM**
- **Flow in GPM and l/min.**
- **Temperature in °F and °C**

**Display/Menu/Alarm or 5/MS Display**

**Material Specifications**

- **3.5 lbs (1.6 Kg)**
- **Dimensions**
  - **Height**: 3 in.
  - **Width**: 3 in.
  - **Depth**: 8 in.

**Accessories Expand the Functionality of the Parker Service Master Easy**

**Flow Sensors Technical Data**

- **Pressure Range**: -14.5 to 235 PSI
- **Measuring Range (Pressure)**
- **20 – 10,000 RPM**
- **Peak Torque**: 20 oz-in
- **Excitation Voltage**: 7-12 VDC
- **Non-conformity (%FS)**: 0.25
- **Hysteresis (%FS Typical)**: 0.1
- **Max. Overload Pressure**: 290 PSI

**Flow Sensors**

- **S-0600 PD**
- **Part Number 100 KHz**
- **Pin Mark Wire Colors**
- **2 T white**
- **3 + brown**
- **4 – green**

**Flow Block**

- **Flow Block**
- **Anodized Aluminum**
- **Turbine**
- **Stainless Steel**

**Temperature Sensors**

- **S-0600 PD**
- **Part Number 100 KHz**
- **Pin Mark Wire Colors**
- **2 T white**
- **3 + brown**
- **4 – green**

**Flow Adapters**

- **5 pin to 5 pin Cable**
- **Flow Sensor Transmission and Interface Adapters**
- **Adapters**
  - **SensoWIN™ 10000 for the available sensors and the Parker Service Master Easy.**

**How to Order**

- **Flow Readers, Flow Block, Temperature Block, Flow Cables, Flow Adapters**
- **Pressure Transducer Options**
- **Accessories**
  - **Pressure Transducer Options**
  - **Vacuum to 8,750 PSI**
  - **Measuring Range**: -14.5 to 235 PSI
  - **Excitation Voltage**: 7-12 VDC
  - **Non-conformity (%FS)**: 0.25
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# The Parker Service Master Easy Diagnostic Meter

## Function Descriptions

- **11-38 VDC Power Supply Connection**
- **GND** (Ground) pin and C48
- **REC** Record Measurement Values
- **OK** Correct function or error
- **MEM/SET** Memory Configuration/Main Menu (device settings)
- **MIN/MAX** Memory Min/Max Values
- **ZERO** Flow Sensor Offset Default
- **I1 – I4** Sensor Input Ports
- **SM** Meter-PC Connection for USB Cable
- **MDR** Main Display
- **STOP** Stop Operation
- **DISP** Display
- **12-Key tactile touch membrane

## Technical Data

### Sensors and Sensor Ratings

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Sensors</th>
<th>Flow Measurement Accuracy</th>
<th>Fluid Temperature Range</th>
<th>Ambient Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-CD 4082</td>
<td>Flow sensor, transducer and diagnostic couplings</td>
<td>±1.0% Full Scale</td>
<td>-13°F to 221°F</td>
<td>0°F to +120°F</td>
</tr>
<tr>
<td>SCFT-5160-PD</td>
<td>Flow sensors are provided with a choice of flow sensors, temperature sensors, flow meters, tachometers and cables are all interchangeable between Serviceman and the Parker Service Master Easy equipment.</td>
<td>±1.0% Full Scale</td>
<td>-13°F to 221°F</td>
<td>0°F to +120°F</td>
</tr>
<tr>
<td>SCFT-0380-PD</td>
<td>Flow sensors are provided with a choice of flow sensors, temperature sensors, flow meters, tachometers and cables are all interchangeable between Serviceman and the Parker Service Master Easy equipment.</td>
<td>±1.0% Full Scale</td>
<td>-13°F to 221°F</td>
<td>0°F to +120°F</td>
</tr>
</tbody>
</table>

### Accessories

- **Focus adapter for confined areas.**
- **Contact adapter for belt drive/wheel.**
- **Tachometer Adapters**

## Pressure Transducer Options

### Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>10 mA, 4–20 mA, 0–10 V, 0–5 V, 1–5 V, 0–10 V, 0–20 mA, 0–30 mA, 0–50 mA, 0–100 mA, 0–200 mA, 0–500 mA, 0–1000 mA, 0–2000 mA, 0–4000 mA, 0–8000 mA, 0–16000 mA, 0–32000 mA, 0–64000 mA, 0–128000 mA, 0–256000 mA, 0–500000 mA, 0–1000000 mA, 0–2000000 mA, 0–4000000 mA, 0–8000000 mA, 0–16000000 mA, 0–32000000 mA, 0–64000000 mA, 0–128000000 mA, 0–256000000 mA, 0–500000000 mA, 0–1000000000 mA, 0–2000000000 mA, 0–4000000000 mA, 0–8000000000 mA, 0–16000000000 mA, 0–32000000000 mA, 0–64000000000 mA, 0–128000000000 mA, 0–256000000000 mA, 0–500000000000 mA, 0–1000000000000 mA, 0–2000000000000 mA, 0–4000000000000 mA, 0–8000000000000 mA, 0–16000000000000 mA, 0–32000000000000 mA, 0–64000000000000 mA, 0–128000000000000 mA, 0–256000000000000 mA, 0–500000000000000 mA, 0–1000000000000000 mA, 0–2000000000000000 mA, 0–4000000000000000 mA, 0–8000000000000000 mA, 0–16000000000000000 mA, 0–32000000000000000 mA, 0–64000000000000000 mA, 0–128000000000000000 mA, 0–2560000000000000000 mA, 0–50000000000000000000 mA, 0–1000000000000000000000 mA, 0–20000000000000000000000 mA, 0–400000000000000000000000 mA, 0–8000000000000000000000000 mA, 0–16000000000000000000000000 mA, 0–32000000000000000000000000 mA, 0–640000000000000000000000000 mA, 0–12800000000000000000000000000 mA, 0–256000000000000000000000000000 mA, 0–5000000000000000000000000000000 mA, 0–100000000000000000000000000000000 mA, 0–2000000000000000000000000000000000 mA, 0–40000000000000000000000000000000000 mA, 0–800000000000000000000000000000000000 mA, 0–1600000000000000000000000000000000000 mA, 0–3200000000000000000000000000000000000 mA, 0–64000000000000000000000000000000000000 mA, 0–128000000000000000000000000000000000000 mA, 0–2560000000000000000000000000000000000000 mL/Min (0-50000 l/min)</td>
</tr>
</tbody>
</table>
The Parker Service Master Easy Diagnostic Meter

Function Descriptions
- Flow run-out (display only)
- Power calculation (display only)
- Battery level indicator

Functions
- Selectable scanning rate in 12-bit A/D Converter (4096 steps)
- Rotational Speed in RPM
- Flow in GPM and l/min.
- Character Height 6 mm
- 128x64 pixels

Meter
- 1 ms intervals for pressure, temperature, flow and rpm
- 1,000,000 data points max
- Memory capacity
- Excitation voltage (12-30 VDC)
- USB 2.0 interface
- Output 11–30 VDC

Part Number
- SCRPM-220
- SCFT-102-034-PD
- SCFT-102-06-PDP
- SCFT-102-034-EMA
- SC-CD 4082

Pressure Transducer Options
- Measuring range: Vacuum to ±1,750 PSI
- Color coded for easy identification
- Corrosion resistant stainless steel housing
- Accuracy of ±0.5% Full Scale (FS)
- Available with PDI, PDIa or DMA style diagnostic couplings

Scram Technomach
- Temperature Sensor for the Parker Service Master Easy Diagnostic Meter. Can be used with flow sensors or an SCRPM-110 port adapter.
- Acetal plastic modified polyamide
- 1-2 Key tactile membrane

Material Specifications
- Flow Block: Anodized Aluminum
- Seal Material: Nitrile
- Screw: Stainless Steel
- Electrical Connection: 5 pins (plug full type)

Flow Sensory Technical Data
- FPD-220
- Flow Rate Range: 0 to 870 GPM
- Temperature Range: -13°F to 221°F
- Accuracy: ±1.5% Full Scale
- Resolution: ±0.2% Full Scale
- Input: ±100 mV
- Output: 0 to 10 V

SensoControl Flow Sensors
- These flow sensors are compact light weight aluminum diagnostic tool capable of measuring pressure, temperature and flow from a single test point on a hydraulic system.
- These flow sensors are designed to be used with SensoControl diagnostic fluids. The SensoControl fluid is designed to be used only with Parker Service Master Easy diagnostic meters.
- Else sensors are provided with a choice of PDI, PDIa or DMA style diagnostic couplings that are designed to be used with SensoControl and the Parker Service Master Easy diagnostic meters.

Flow Sensors Technical Data
- Pressure Rating: ±1,750 PSI
- Flow Temperature Range: 0°F to 121°F
- Ambient Temperature Range: 0°F to 121°F
- Mode/Compatibility: Fluid, Pressure, Temperature, Flow, RPM
- Flow Measurement: Accuracy: ±1.5% Full Scale
- Voltage Input: ±100 mV
- Current Requirement: 0.1 A
- Frequency Range: 0.01 to 200 Hz
- Voltage Range: 11 to 50 VDC

How to Order
- Flow Sensor
- Flow Sensor Adapter
- Flow Sensor Test Wire
- Flow Block
- Flow Sensor
- Flow Sensor Adapter
- Flow Sensor Port
- Flow Block
The Parker Service Master Easy

Test Meter Kits

The Parker Service Master Easy
340 Test Meter Kit Includes:
The Case
SCN-340
The Parker Service Master Easy Meter . . . . . . . . . . . . . . . . . SCM-340-2-02
2 Pressure Transducers (10 PSI) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ..
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Offering the latest in sensor recognition technology, the Parker Service Easy gives you the ability to measure and store data relating to pressure, flow, temperatures and rotational speed simultaneously, or switch between them with ease.

On site data storage – has never been easier or as powerful. The 0.25 ms scanning rate catches even the most instantaneous pressure spikes, flow surges and temperature changes. More than one million data points allow you to store or download the data to your PC.

- Ideal for both hydraulic and pneumatic systems
- Easy, intuitive operation
- Large legible display
- Auto sensor recognition
- MIN/MAX Memory
- Multiple sensor inputs
- Battery monitoring
- Plug and Play Software Recognition
- Simultaneous Multi-line Display

Model SCM-340-2-02 Features:

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