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, temperature 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

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

Model SCM-340-2-02 Features:

- Fast Measuring & Analysis Capability
- Multi-line Display
- 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

Test Meter Kits

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 Transducer Cables (10 Ft.) SC-180-03-02
Power Supply: SCSN-450
SensoWin Software 4.03 SC-CD 4082
USB Computer Cable: SCK-315-02-34
Operating Manual (w/ the Parker Service Master Easy Meter)

The Parker Service Master Easy Diagnostic Meter

Additional Transducers

The Parker Service Master Easy Meter gives you the ability to measure pressure, flow, temperature and rotational speed simultaneously, or switch between them with ease.

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Contact Information:
**The Parker Service Master Easy Diagnostic Meter**

### Function Descriptions

- **MIN/MAX Memory**
- **Burst Mode**: 0.25 ms (input 1 only)
- **12 Bit A/D Converter**: 4096 steps
- **Automatic Sensor Recognition for connectors**

### Inputs

- Rotational Speed in RPM
- Flow in GPM and l/min.

### Technical Data

- **Character Height**: 6 mm
- **128x64 pixels**
- **1 ms intervals**
- **12-Key tactile touch membrane**
- **Protection class**: IP54
- **Storage Temperatures**: Ambient Conditions
- **Manual and automatic**
- **250,000 points per curve**
- **1,000,000 data points max**
- **Memory capacity**
- **Charge time**: 3 hours
- **Operating time**: 8 hours
- **Internal rechargeable Ni-MH battery**
- **Weight**: 1.2 lbs (700 grams)
- **Dimensions**: 235 x 106 x 52 mm

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

- **Pressure Transducer Options**
  - **Measurement ranges**: Vacuum to ±750 PSI
  - **Color coded for easy identification**
  - **Compressor resistant stainless steel housing**
  - **Accuracy of ±0.5% Full Scale (FS)**
  - **Available with PD, PDP or EMA style diagnostic couplings**

### Pressure Transducer Technical Data

- **Excitation Voltage**: 7-12 VDC
- **Output Signal (Volts)**: -0.2 to 2
- **Max. Overload Pressure**: 290 PSI
- **Response Time**: 1 ms
- **Repeatability (%FS Typical)**: 0.08

### Flow Sensors Technical Data

- **Excitation Voltage**: 7-12 VDC
- **Output Signal (Volts)**: 0 to 3
- **Max. Overload Pressure**: 1450 PSI
- **Response Time**: 1 ms
- **Repeatability (%FS Typical)**: 0.13

### Flow Sensor Specifications

- **Flow Block**: Anodized Aluminum
- **Suction**: Stainless Steel
- **Discharge**: Stainless Steel
- **Material of Construction**: 3 psi (5 psi Full Scale)

### How to Order

#### Flow Sensor Kit

- **Part Number**
- **Flow Block**
- **Suction**
- **Discharge**
- **Material Connection**
- **Temperature Range**
- **Accuracy**
- **Response Time**
- **Voltage**

### Temperature Sensor

- **Accuracy**: 0.25% FS
- **Service Master Easy**
- **Flow sensor, transducer and temperature probe cables are all interchangeable between Serviceman™ and the Parker Service Master Easy meters.**

### SensoControl Flow Sensors

- These flow sensors are a compact light-weight aluminum diagnostic tool capable of measuring pressure, temperature, and flow from a single test point in a hydraulic system.
- These flow sensors are designed to be used with SensoControl diagnostic ports. The entire series of flow sensors, temperature sensors, pressure sensors, and cables are designed to be used with SensoControl™ and the Parker Service Master Easy diagnostic equipment.

### Flow Sensor Adapters

- **Sensor Color**: 3M or 0-5 VDC
- **For data transfer to a PC (Windows 2000 and newer).**
- **Part Number**

### Accessories

- **Temperature Sensor for the Parker Service Master Easy.**
- **SCRFMM Tachometer for Serviceman and the Parker Service Master Easy.**
- **SCRM-P Adapter for flow sensors with an SCT-CD 4 pin adapter.**
- **SCRM-STE Adapter for non-latching temperature sensors.**
- **SCRM-P Adapter for flow sensors with an SCT-CD 4 pin adapter.**
- **SCRM-STE Adapter for non-latching temperature sensors.**

### Technical Data

- **Media/Compatibility**: Petroleum Based Fluids
- **Ambient Temperature Range**: 0°F to +120°F
- **Fluid Temperature Range**: 0°F to +350°F
- **Viscosity Range**: 11 to 50 cSt
- **Refractive index**: 1.4
- **Refractive index (oil)**: 1.4
- **Response Time**: 50 ms
- **Current Requirement**: 6mA
- **Voltage Input**: +7 to 12 VDC
The Parker Service Master Easy Diagnostic Meter

**Function Descriptions**

- 11-38 VDC Power Supply Connection
- 3 CONNECT: Meter On or Off
- 4 BEEP: Internal beeper
- 5 MEMORY: Memory: Create/Read
- 6 CLEAR: Erase Memory
- 7 AUTO-TOGGLE ON/OFF
- 8 BATTERY LEVEL ON/OFF
- 9 MIN/MAX: Memory: Record/Read
- 10 RANGING: Burst Mode

**Inputs**

- Flow in GPM and l/min.
- Temperature in °F and °C

**Display of Pressure, Temperature, Fluid**

- 72x40 mm screen
- 128x64 pixels

**Meter**

- Flow and Rotational Speed

**Power Requirements**

- USB 2.0 interface
- up to 100 hours power supply.

**Weight**

- 1.2 lbs (700 grams)

**Dimensions**

- 5.91 x 2.44 x 8.35 inches

**Materials of Construction**

- Diaphragm: Stainless steel
- Bearings: Stainless steel
- Turbine: Stainless steel
- Seal: Fluorocarbon

**Vacuum to 8,750 PSI**

**Accuracy**

- ±0.25% Full Scale (FS)

**Input Signal to Noise**

- ≤ 0.1% FS

**Response time**

- <1 ms

**Load**

- 2m ohms

**Accuracy**

- ±0.5% Full Scale (FS)

**Media/Compatibility**

- Petroleum Based Fluids

**Fluid Temperature Range**

- -13°F to 221°F

**Pressure Rating**

- 6000 PSI

**Viscosity Range**

- 11 to 50 cSt

**Flow Measurement Accuracy**

- ±1.0% Full Scale

**Temperature Sensor**

- 30 to 220°F

**Temperature Probe Cables**

- 5 pin to 5 pin cables or with an SCTA-1/4 port adapter

**Extension Cable**

- 5 pin to 5 pin cables

**Flow Sensors Technical Data**

<table>
<thead>
<tr>
<th>Pressure Range</th>
<th>4000 PSI</th>
<th>6000 PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Range</td>
<td>-13°F to 221°F</td>
<td>-13°F to 221°F</td>
</tr>
<tr>
<td>Media/Compatibility</td>
<td>Petroleum Based Fluids</td>
<td>Petroleum Based Fluids</td>
</tr>
<tr>
<td>Flow Measurement Accuracy</td>
<td>±1.0% Full Scale</td>
<td>±1.0% Full Scale</td>
</tr>
<tr>
<td>Temperature Probe Cables</td>
<td>5 pin to 5 pin</td>
<td>5 pin to 5 pin</td>
</tr>
</tbody>
</table>

**Flow Transducer Options**

- Measuring range: Vacuum to 5,750 PSI
- Color coded for easy identification
- Corrosion resistant stainless steel housing
- Accuracy of 5.0% Full Scale (FS)
- Available with PD, PDP or EMA style diagnostic couplings

**Transducer Technical Data**

<table>
<thead>
<tr>
<th>Measuring Range</th>
<th>0.2 – 4 GPM</th>
<th>0.2 – 160 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>±1.0% Full Scale</td>
<td>±1.0% Full Scale</td>
</tr>
<tr>
<td>Output Signal (Volts)</td>
<td>0 to 3</td>
<td>0 to 3</td>
</tr>
<tr>
<td>Excitation Voltage</td>
<td>7-12 VDC</td>
<td>7-12 VDC</td>
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</tbody>
</table>

**Flow Sensors Technical Data**

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<td>5 pin to 5 pin</td>
<td>5 pin to 5 pin</td>
</tr>
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</table>

**Flow Sensor Adapters**

- 5 pin to 5 pin cables
- Flow sensor diagnostic couplings used in conjunction with both SensoControlTM and the Parker Service Master Easy diagnostic equipment.

**SensioControl Flow Sensors**

- These flow sensors are a compact light-weight aluminum diagnostic tool capable of measuring pressure, temperature and flow from a single test point in a hydraulic system.
- These flow sensors are designed to be used with a variety of diagnostic fluids. The sensors, temperature probes, and cables are manufactured from carbon aluminum bar stock and are rated to 800°F and 10,000 PSI at temperatures of -4°F to 120°F. They are safe to use in a variety of applications including commercial, industrial, and mobile.

**Flow Sensors Specifications**

- Flow Block...
- ANSI 316 Stainless Steel...
- Connection: 1/2" NPT...
- Recharge circuit for use with external power supply.
- Power Supply: 5 VDC...
- Response time: <1 ms
- Load: 2m ohms
- Accuracy: ±0.5% Full Scale
- Media/Compatibility: Petroleum Based Fluids...
- Fluid Temperature Range: 0°F to +350°F
- Pressure Rating: 6000 PSI...

**Accessories**

- Sensor Adapters
- See Catalog 3900 for the available selection
- 5 pin to 5 pin cables
- Flow sensor diagnostic couplings
- Available with both SensoControlTM and the Parker Service Master Easy diagnostic equipment.

**Part Numbers**

- SC-CD-4002
- SC-CD-4003
- SC-CD-4004

**Part Numbers**

- SC-CD-4002
- SC-CD-4003
- SC-CD-4004
**SensoControl Flow Sensors**

These flow sensors are a compact light-weight aluminum diagnostic tool capable of measuring pressure, temperature and flow from a single test point in a hydraulic system. These flow sensors are designed to be used with a calibrated digital dial gauge or sensor. Flow sensors are available in four sizes with flow measuring units available in five ranges from 0.2 – 160 GPM. These flow sensors are designed to be used with a pressure transmitter or a digital display panel and the Parker Service Master Easy equipment.

<table>
<thead>
<tr>
<th>Flow Sensor Range</th>
<th>Flow Sensor Part Number</th>
<th>Inlet/Outlet Port</th>
<th>Length (in)</th>
<th>Height (in)</th>
<th>Width (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 – 160 GPM</td>
<td>SCFT–5160-PD, SCFT–5160-PDP, SCFT–5160-EMA</td>
<td>1 5/8-12 ORB</td>
<td>8.35</td>
<td>5.91</td>
<td>2.44</td>
</tr>
<tr>
<td>3 – 80 GPM</td>
<td>SCFT–0380-PD, SCFT–0380-PDP, SCFT–0380-EMA</td>
<td>1 5/16-12 ORB</td>
<td>7.48</td>
<td>5.28</td>
<td>2.44</td>
</tr>
<tr>
<td>1 – 16 GPM</td>
<td>SCFT–0116-PD, SCFT–0116-PDP, SCFT–0116-EMA</td>
<td>1 1/16-12 ORB</td>
<td>7.48</td>
<td>5.12</td>
<td>2.44</td>
</tr>
<tr>
<td>0.2 – 4 GPM</td>
<td>SCFT–0004-PD, SCFT–0004-PDP, SCFT–0004-EMA</td>
<td>3/4-16 ORB</td>
<td>5.35</td>
<td>4.61</td>
<td>1.46</td>
</tr>
</tbody>
</table>

**Flow Measurement Accuracy**

±1.0% Full Scale on all sensors.

**Media/Compatibility**

Petroleum Based Fluids

**Fluid Temperature Range**

0°F to +350°F

*SCFT–7160 is rated to 5000 PSI*

**SCFT**–7160 is available in four sizes with flow measuring units manufactured from solid aluminum to withstand pressures of 15,000 PSI and temperatures of 190°F to 210°F. They are designed for use with water based hydraulic fluids.

Elbow sensors are provided with a choice of a PC/POP or EMA style diagnostic couplings and are designed to be used with SensoControl and the Parker Service Master Easy equipment.

**Flow Sensor Technical Data**

<table>
<thead>
<tr>
<th>Pressure Rating</th>
<th>0 – 6000 PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Range</td>
<td>-40° to 125°F</td>
</tr>
</tbody>
</table>

**Flow Measurement Accuracy**

±1.0% Full Scale

**Flow Measurement**

Vacuum to 8,750 PSI

**Voltage Requirement**

10 – 15 VDC

**Response Time**

< 1 ms

**SCFT**–5160 is designed to be used with a Parker Service Master Easy equipment.

**Temperature Sensor**

For SensoControl and the Parker Service Master Easy equipment, a precision measurement of rotational speed, flow and pressure is achieved using a rotational sensor, flow sensor, temperature sensor and two test points.

**Temperature Range**

-25°C to 125°C

**Accuracy**

±1.5% Full Scale

**Media/Compatibility**

Petroleum Based Fluids

**Fluid Temperature Range**

-4°C to 185°C

**SCFT**–7160 is designed to be used with a Parker Service Master Easy equipment.

**Temperature Measurement Accuracy**

±1.5% Full Scale

**Media/Compatibility**

Petroleum Based Fluids

**Fluid Temperature Range**

-4°C to 185°C

**SCFT**–7160 is designed to be used with a Parker Service Master Easy equipment.

**Temperature Measurement Accuracy**

±1.5% Full Scale

**Media/Compatibility**

Petroleum Based Fluids

**Fluid Temperature Range**

-4°C to 185°C

**SCFT**–7160 is designed to be used with a Parker Service Master Easy equipment.

**Temperature Measurement Accuracy**

±1.5% Full Scale

**Media/Compatibility**

Petroleum Based Fluids

**Fluid Temperature Range**

-4°C to 185°C

**SCFT**–7160 is designed to be used with a Parker Service Master Easy equipment.

**Temperature Measurement Accuracy**

±1.5% Full Scale

**Media/Compatibility**

Petroleum Based Fluids

**Fluid Temperature Range**

-4°C to 185°C

**SCFT**–7160 is designed to be used with a Parker Service Master Easy equipment.

**Temperature Measurement Accuracy**

±1.5% Full Scale

**Media/Compatibility**

Petroleum Based Fluids

**Fluid Temperature Range**

-4°C to 185°C

**SCFT**–7160 is designed to be used with a Parker Service Master Easy equipment.
Test Meter Kits

The Parker Service Master Easy

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 Transducer Cables (10 Ft.) SCK-102-03-02
Power Supply: SCSN-450
SensoWin Software 4.03 SC-CD 4082
USB Computer Cable: SC-CD 310-02-34
Operating Manual (w/ all the Parker Service Master Easy Meter)

Additional Transducers

Code for Ordering Kits:

PDSME XX - X - XX - XX

Code for Ordering Separately:

PD XXXXX - XXX

Flow Sensors

Code for Ordering Separately:

SCFT-XXXX - XXX

Flow Range

Pressure Range

Diagnostic Style

Flow Range

Diagnostic Style

Other Features

- Ideal for both hydraulic and pneumatic systems
- Easy, intuitive operation
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Model SCM-340-2-02 Features:

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

Additional Transducers

Code for Ordering Separately:

- PD XXXXX - XXX

Flow Sensors

Code for Ordering Separately:

- SCFT-XXXX - XXX

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- USB Computer Cable
- Operating Manual

Code for Ordering Kit:

- PDSME XX - X - XX

Flow Range

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<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>PRESSURE</th>
<th>COLOR</th>
</tr>
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<tbody>
<tr>
<td>01</td>
<td>15-95 PSI</td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>0 - 870 PSI</td>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>0 - 2175 PSI</td>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>0 - 8300 PSI</td>
<td>Red</td>
<td></td>
</tr>
</tbody>
</table>

Diagnostic Style

- Code for Ordering Separately:
  - PD XXXXXX - XXX

Flow Range

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>FLOW RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>004</td>
<td>2 – 4 GPM</td>
<td>1 – 150 MP</td>
</tr>
<tr>
<td>210</td>
<td>1 – 15 GPM</td>
<td>0.1 – 60 MP</td>
</tr>
<tr>
<td>280</td>
<td>8 – 80 GPM</td>
<td>0.5 – 600 MP</td>
</tr>
<tr>
<td>280X</td>
<td>5 – 100 GPM</td>
<td>0.5 – 600 MP</td>
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