



The Service Master Plus combines innovative technology with increased overall capabilities to bring you a premier diagnostic instrument. This tool is more than just a meter; it incorporates data measurement, display, and on-screen analysis to provide increased functionality that extends far beyond standard meters currently on the market.

Capabilities:

- Hand held diagnostic meter
- Measure and Display
 - Pressure
 - Flow
 - Rotational Speed
 - Temperature
 - Auxiliary inputs

Features:

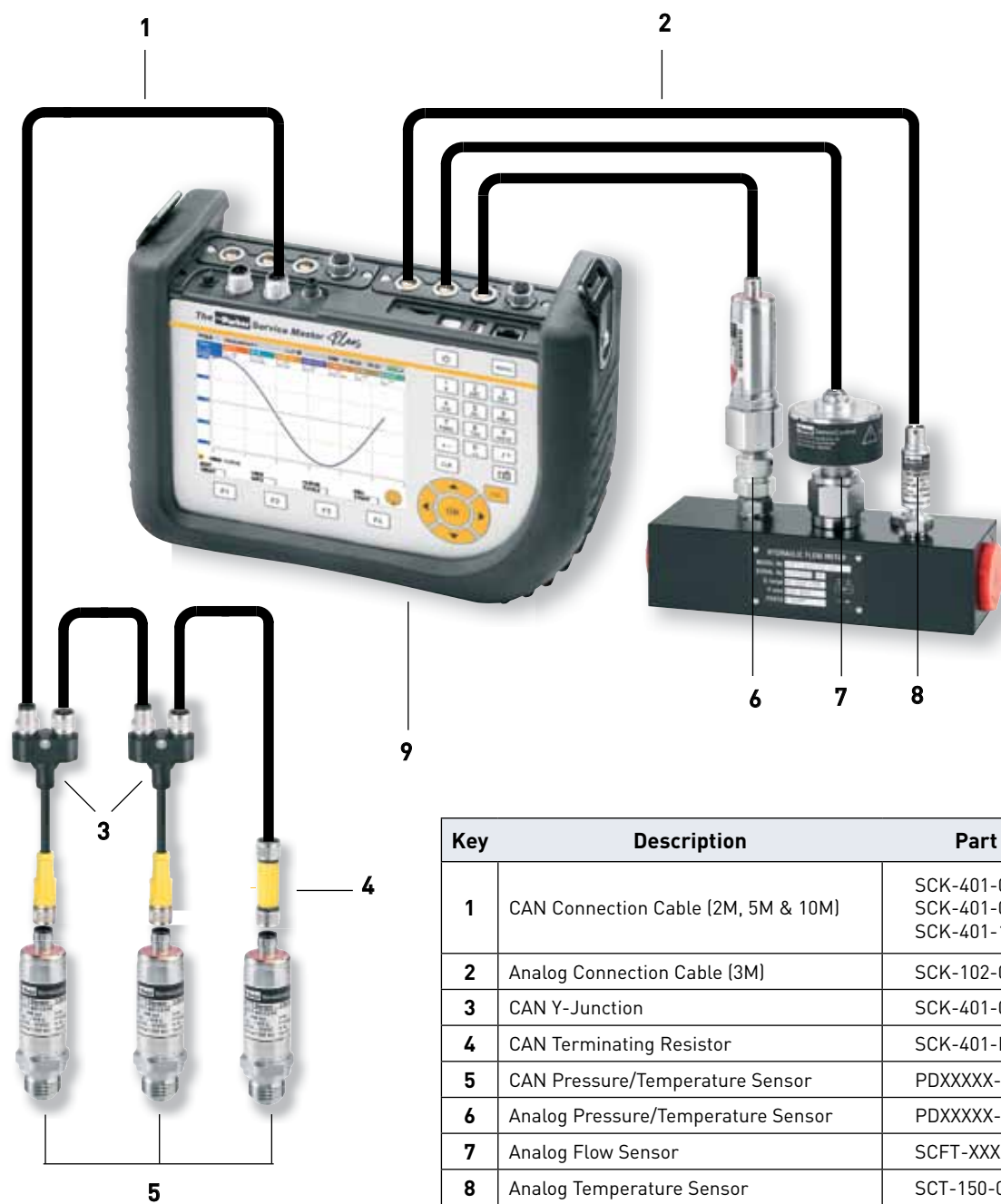
- 26 sensor inputs
- Rugged design
- Auto sensor recognition
- CAN open sensors
- Full color data display options
- Fast scan rate
- Store data to device, micro SD or USB
- SensoWin software utility
- Scan rate of 1ms

Service Master Plus K-SCM-500-01-01-ENG includes:

The Parker Service Master Plus Instrument
Quick Start Manual
Power Supply
USB Connection Cable
SensoWin Software
Category 5 LAN Cable

Service Master Plus K-SCM-500-01-01-ENG Technical Data

Functions	CANbus Inputs	Ambient Operating Conditions
Measurement Accuracy: $\pm 0.25\%$ FS	2 CANbus networks with 8 inputs each (16 total)	Ambient temperature: 32 to 112 F°
Temp Error: 0.02% FS per °C		Storage temperature: -10 to 140 F°
Display	Scanning Rate: 1 ms	Relative humidity: < 80 %
Visible Area: 115 x 86 mm	Input Impedance: 1 kΩ	Environmental test: IEC60068-2-32 (1 m, free fall)
Resolution 640 x 480 pixels	M12x1, 5 pin push-in connector	
Interfaces	Analog Inputs	Type of Protection
USB device type B (mass storage)	6 Senso Control sensor inputs	IP64 (to EN60529) (Un-connected)
USB host type A (PC Connection)	Parker Automatic Sensor Recognition	IP54 in connected state
10/100 base T Ethernet RJ45	Scanning Rate: 1 ms	Power Supply
Functions	Input Impedance: 1 kΩ	Internal Lithium Ion pack, +7.4 VDC/4500 mAh
Measuring mode: Start/stop, points, trigger	5 pin push-pull connection	External 110/240 VAC - 24 VDC/2500 mA
Measurement: ACT, MIN and MAX	Digital Input /Output	Charge Time: 3h
Measurement display: Numerical, bar graph, pointer, curve graph	Active High 7 to 24 VDC	Run time with fully charged battery: 8h
Trigger: Slope, manual, level, window, time, logic, Pre-Trigger	Active Low <1 VDC	Housing/protective sleeve
Remote operation via the Ethernet	Input Impedance: 1 kΩ	Housing material: ABS/PC (thermoplastic)
Acoustic notification at any incident	Output Current - 20 mA	Housing protective sleeve material: TPE (thermoplastic elastomer)
Measure value storage	Analog Inputs for auxiliary sensors	Dimensions (w x h x d): 257 mm x 75 mm x 181 mm
6,000,000 points per measurement	2 analog inputs for measuring current and voltage	Weight: 3.4 lbs
1,000,000,000 points total storage	Scanning Rate: 1ms	
On board storage 64 MB	Voltage Measuring Range: -10 to +10VDC	
External: Micro SD memory card slot	Current Measuring Range: 0/4 to 20 mA	
External: USB mass storage device	Configurable as FAST-mode analog inputs, 0.1ms scanning rate	



Key	Description	Part Number
1	CAN Connection Cable (2M, 5M & 10M)	SCK-401-02-4F-4M SCK-401-05-4F-4M SCK-401-10-4F-4M
2	Analog Connection Cable (3M)	SCK-102-03-02
3	CAN Y-Junction	SCK-401-0.3-Y
4	CAN Terminating Resistor	SCK-401-R
5	CAN Pressure/Temperature Sensor	PDXXXX-XXXX-CAN
6	Analog Pressure/Temperature Sensor	PDXXXX-XXXX
7	Analog Flow Sensor	SCFT-XXXX-XXX
8	Analog Temperature Sensor	SCT-150-04-02
9	Service Master Plus Instrument	K-SCM-500-01-01-ENG
-	CAN Flow Sensor	SCFT-XXXX-XXX-CAN



Kit Contents:

Case	SCC-500-ENG
The Parker Service Master Plus Instrument	K-SCM-500-01-01-ENG
2 Transducers	(CAN or Analog See Below)
2 Transducer Cables (5m CAN or Analog)	SCK-XXX-XX-X
Power Supply	SCSN-460
USB Connection Cable	SCK-318-02-35
SensoWin Software	
Quick Start Manual	
Category 5 LAN Cable	

Code for Ordering Service Master Plus Kits:

PDSMP 50 - X - XX - XX - XXX

Transducer Pressure Range (choose 2)	Code	Description
	CAN	CAN bus Technology
	Blank	Analog
Coupler Style	Code	Description
	2	PD Style
	6	EMA 3 Style (Female)
Meter	Code	Description
	50	The Parker Service Master Plus

Code	Pressure (psi)	Color
01	-14.5 – +235	Blue
06	0 – 870	Green
15	0 – 2175	Yellow
40	0 – 5800	Orange
60	0 – 8700	Red

Additional Transducers -
Code for Ordering Separately:

PD XXXXX - XXXX - XXX

Pressure Range	Code	Description
	CAN	CAN bus Technology
	Blank	Analog
Coupler Style	Code	Description
	TA	PD Style
	PTA	PDP Style
	TEMA3	EMA 3 Style (Female)

Code	Pressure (psi)	Color
0100	-14.5 – +235	Blue
0600	0 – 870	Green
1500	0 – 2175	Yellow
4000	0 – 5800	Orange
6000	0 – 8700	Red

Flow Sensors -

Code for Ordering Separately:

SCFT- XXXX - XXX - XXX

Coupler Style	Code	Description
	CAN	CAN bus Technology
	Blank	Analog
Flow Range	Code	Flow Rate (gpm)
	0004	0.25 – 4 (1 – 15 l/min)
	0116	1 – 16 (4 – 60 l/min)
	0380	3 – 80 (10 – 300 l/min)
	5160	5 – 160 (20 – 600 l/min)

Code	Description
PD	PD Style
EMA	EMA 3 Style



Diagnostic Meters and Accessories



Description	The Parker Serviceman	The Parker Service Master Easy	The Parker Service Master Plus	Part Number
The Parker Serviceman Hand-held meter, 2 inputs (Includes SCSN-450 Power Supply)	■			SCM-152-2-02
The Parker Service Master Easy Hand-held meter, 4 inputs, up to 1,000,000 data points (Includes SCSN-450 Power Supply)		■		SCM-340-2-02
The Parker Service Master Plus Hand-held meter, 26 inputs, up to 1,000,000,000 data points (Includes SCSN-460 Power Supply)			■	K-SCM-500-01-01-ENG
Storage Case - Small	■			SCC-150
Storage Case - Medium	■	■		SC-690
Storage Case - Large Roller	■	■	■	SCC-500-ENG
Storage Insert - Holds Extra Sensors Used with SCC-500-ENG Large Roller Case	■	■	■	SCC-500-INLET-ENG
Power Supply 120 Volt AC	■	■		SCSN-450
Power Supply 120 Volt AC			■	SCSN-460
Connection Cable - Analog Used between meter and sensors (3M length)	■	■	■	SCK-102-03-02
Extension Cable - Analog Used in series with connection cables (5M length)	■	■	■	SCK-102-05-12
Connection Cable - CAN Used between meter and sensors (2M, 5M, 10M lengths)			■	SCK-401-02-4F-4M SCK-401-05-4F-4M SCK-401-10-4F-4M
Pressure Transducers - Analog Five measurement ranges	■	■	■	See page F-17
Pressure Transducers - CAN Five measurement ranges			■	See page F-18
Flow Sensors - Analog Four measurement ranges	■	■	■	See page F-19
Flow Sensors - CAN Four measurement ranges			■	See page F-20
Temperature Sensor Used with Parker Flow Sensors or SCTA-1/4 Port Adapter (Requires standard connection cable)	■	■	■	SCT-150-04-02
Port Adapter Converts M10X1 to 1/4" male NPT thread	■	■	■	SCTA-1/4
Tachometer To measure rotational speed (0 to 10,000 RPM)	■	■	■	SCRPM-220
Contact Adapter For SCRPM-220 Tachometer	■	■	■	SCRPMA-001
Focus Adapter For SCRPM-220 Tachometer	■	■	■	SCRPMA-002
Diagnostic Test Hose Assembly (19" & 32" lengths) Used with PD style Parker Transducers and diagnostic nipples	■	■	■	PDH-19 PDH-32
Voltage Adapter Used with auxiliary sensors		■	■	SCMA-VADC-600



Diagnostic Meters and Accessories
Software and Data Cables



Description	The Parker Serviceman	The Parker Service Master Easy	The Parker Service Master Plus	Part Number
The Parker Serviceman Hand-held meter, 2 inputs (Includes SCSN-450 Power Supply)	■			SCM-152-2-02
The Parker Service Master Easy Hand-held meter, 4 inputs, up to 1,000,000 data points (Includes SCSN-450 Power Supply)		■		SCM-340-2-02
The Parker Service Master Plus Hand-held meter, 26 inputs, up to 1,000,000,000 data points (Includes SCSN-460 Power Supply)			■	K-SCM-500-01-01-ENG
Data Cable and Software To connect the Serviceman meter to a PC	■			SCSW-KIT-152
SensoWin Software For data transfer from any Parker Service Master meter to a PC		■	■	Download from web
Data Cable Used between the Parker Service Master Easy meter and a PC		■		SCK-315-02-34
Data Cable Used between the Parker Service Master Plus meter and a PC			■	SCK-318-02-35

