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## Parker Serviceman Plus with new pressure sensors

Mobile measurement technology for daily use



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# Parker Serviceman Plus – ideal for ma

Simple, robust and flexible

“Plug & play” using automatic sensor recognition, simply plug in and measure

Large back-lit display for quick and secure reading, even under difficult conditions

Simple troubleshooting using MIN/MAX memory and direct display of differential pressure or hydraulic performance

Simple and clear user prompts



# aintenance and diagnostic

Innovative memory concept  
with nano USB stick

USB interface to PC for  
convenient analysis and  
documentation of the  
measurements via the  
SensoWin software

Robust design with oil-  
resistant rubber protection  
for use in extreme conditions  
(protection category up  
to IP67)

Rear panel and integrated  
support simplifies handling



#### Pressure sensor analogue SCP-XXX-74-02

- Compact construction
- Process connection G 1/4 A BSPP
- Colour ring for detecting pressure levels
- Pressure range -1...15/0...60/150/400/600/1000 bar



#### Pressure sensor CAN SCP-XXX-C4-05

- Compact construction size
- Sensor identification illuminated ring
- Quick plug screw-in connection (SPEEDCON®, M12 5 pin)
- Process connection G 1/4 A BSPP
- Colour ring for detecting pressure levels
- Pressure range -1...16/0...60/160/400/600/1000 bar

SPEEDCON®: Trademark of  
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# One device. Two versions. Several connections

Key characteristics: Function and design

## The advantages at hand.

The new Serviceman Plus is a mobile, extremely robust and easy-to-use measuring device for many measurement tasks in mobile hydraulics or stationary hydraulic systems.

With the automatic sensor recognition you can simply plug

in pressure, temperature, flow or speed sensors and start the measurement immediately. It is easy to use without setting the sensor parameters; the measurement ranges are scaled automatically and the measure is shown on the screen.



## Available in 2 designs:

- With 2 inputs for analogue Parker sensors
- With a CAN interface for up to 3 Parker CAN sensors



## Advantages of Parker CAN-Bus

- cable length up to 50 m lengths
- Low wiring expenditure, up to 3 sensors in a bus line
- High interference resistance using digital data transmission
- Plug & play functionality without a lot of configuration effort



# nections. A lot of options.

## **Simply up-to-date.**

The integrated measured value memory can be easily extended using a USB stick. The IP protection category is retained when using a nano USB stick. Thus on-site measurements could be easily saved. For subsequent analysis and documentation just the USB stick has to be moved on PC; the measuring equipment can stay in its case.

## **Win-win strategy.**

It goes without saying that the data can be loaded into the SensoWin software via the integrated USB interface. Online measurement is also therefore very easy.

## **Prompt troubleshooting.**

Directly measuring the differential pressure or hydraulic performance is possible. The integrated MIN/MAX memory reliably stores pressure peaks and drops, thus facilitates troubleshooting in the hydraulics.

## **Much more robust.**

The Serviceman is extremely robust and insensitive to impacts and moisture (up to IP67) and has been designed for use in adverse conditions. The large back-lit display provides easy reading even in poor lighting conditions.

## The application areas of the Parker Serviceman Plus



# That's also how we are measured

A small device with a wide range of accessories



## Pressure sensor SCP

- Measurement of pressure peaks up to 1,000 bar
- Precision  $\pm 0.5\%$  FS



## Flow measurement turbine SCFT

- Measurement range up to 750 l/min
- Integrated pressure and temperature connections



## Temperature sensor SCT

- Precise measurement of oil temperatures up to 105°C
- Screw-in or manual sensor



## Rev sensor SCRPM

- Simple and fast rev measurement
- Up to 10,000 RPM

Items supplied		SCM-155-0-02 Analogue version	SCM-155-2-05 CAN version
Power supply with USB connection 110/240 VAC, 1 A	SCSN-440	●	●
Nano USB stick 1 GB		●	●
USB connection cable 1 m (for charging and connecting with PC)		●	●
SensoWin software		●	●
<b>Spare parts and accessories</b>			
Vehicle charging adapter with USB connection 12/24 VAC, 1 A	SCNA-USB-CAR	○	○
USB connection cable 2 m (for charging and connecting with PC)	SCK-315-02-36	○	○
<b>Pressure sensors</b>			
Analogue pressure sensors Pressure ranges: -1...015 bar/ 0...060 bar/0...150 bar/0...400 bar/ 0...600 bar/0...1,000 bar	SCP-xxx-74-02	○	-
CAN pressure sensors Pressure ranges: -1...016 bar/ 0...060 bar/0...160 bar/0...400 bar/ /0...600 bar/0...1,000 bar	SCP-xxx-C4-05	-	○

**Other sensors and connection cables:** refer to SensoControl® diagnosis catalogue 4054  
 - not available ○ Option ● Series

Parker Serviceman Plus Kits	SCKIT-155-0-00	SCKIT-155-2-00
Device case SCC-200	1	1
Parker Serviceman Plus incl. USB stick, power supply, PC connection cable and SensoWin software	SCM-155-0-02	SCM-155-2-05
Analogue connection cable 3 m SCK-102-03-02	2	-
Connection cable CAN SCK-401-05-4F-4M	-	2
Y-distributor CAN SCK-401-0.3-Y	-	1
Final resistance CAN SCK-401-R	-	1
Adapter (M16x2 external - M16x2 external) SCA-EMA-3/3	2	2
Measurement tube 1,500 mm (M16x2) SMA3-1500	2	2



# Here's the overview

Data turn into facts when you order

Technical data	SCM-155-0-02 Analogue version	SCM-155-2-05 CAN version
<b>Inputs</b>		
Sensor inputs	2 x Parker analogue sensor with sensor recognition	CAN-BUS interface for up to 3 x Parker CAN-BUS sensors with sensor detection
Measurement precision	< ± 0.2 % FS ± 1 digit	–
Plug connection	5-pol., push-pull	5-pol., M12x1, SPEEDCON®, plug
Sampling rate P-channel	1 ms	1 ms
<b>Interfaces</b>		
USB device	Online data transfer between device and PC via SensoWin software; measured value transfer: ACT/MIN/MAX, min. 5 ms; USB standard: 2.0, full speed; connection assembly: Micro USB socket, protected, type B	
USB host	Connection of USB memory stick, max. 4 GB; recommended types: Delock USB 2.0 Nano memory stick, Intenso Micro Line; USB standard: 2.0, full speed, max. 100 mA; connection assembly: Micro USB socket, protected, type B	
<b>memory</b>		
Internal measured value memory	1 measurement, approx. 15,000 data records (270,000 measured values ACT/MIN/MAX)	
USB memory stick	1 GB supplied	
<b>Functions</b>		
Difference; addition; output; ACT; MIN; MAX; FS; TEMP display; battery charge; start-stop measurement		
<b>Display</b>		
Type	FSTN-LCD, graphical, with LED background lighting	
Visible area	62 mm x 62 mm	
Resolution	130 x 130 pixels	
<b>Voltage (external)</b>		
Micro-USB socket, type B, + 5V DC, max. 1000 mA		
<b>Battery</b>		
Type	Lithium-ion pack; 3.7 V DC / 2250 mAh	Lithium-ion pack; 3.7 V DC / 4500 mAh
Battery charging time with power supply	Approx. 3.5 hours	Approx. 7 hours
Battery discharge period	> 8 hours, with 2 sensors	> 8 hours, with 2 CAN-BUS sensors
<b>Casing</b>		
Material of casing	PC/ABS	
Material of casing protective cover	TPU	
Dimensions (W x H x D)	96 x 172 x 54 mm	
Weight	approx. 540 g	
<b>Operating environment</b>		
Operating temperature	0...+50 °C	
Storage temperature	-25...+60 °C	
Rel. humidity	< 80 %	
Environmental assessment	DIN EN 60068-2-32 (1 m free fall)	
Protection category (EN60529)	IP54	IP67
<b>PC software</b>		
Read measurement data, show, analyse on PC; read device settings, edit; load device settings from library to manual measuring device		

## Pressure sensor SCP

### Measuring range pressure sensor analogue SCP-xxx-74-02

	SCP-015	SCP-060	SCP-150	SCP-400	SCP-600	SCP-1000
Pressure ranges bar	-1...15	0...60	0...150	0...400	0...600	0...1000
Over-pressure bar	30	120	300	800	1200	1500
Brush pressure bar	60	240	700	1600	2500	2500

### Measuring range pressure sensor CAN SCP-xxx-C4-05

	SCP-016	SCP-060	SCP-160	SCP-400	SCP-600	SCP-1000
Pressure ranges bar	-1...16	0...60	0...160	0...400	0...600	0...1000
Over-pressure bar	30	120	300	800	1200	1500
Brush pressure bar	60	240	700	1600	2500	2500

Precision	± 0.5 % FS
Long-term stability	± 0.2 % FS/a
Response time	1 ms
Electrical connection	Analogue version: 5 pin push pull CAN version: 5 pin, M12x1
Process connection	G ¼ A BSPP
Housing	Stainless steel
Parts that contact media	Stainless steel
Seal	FKM
Ambient temperature	-25...85°C
Storage temperature	-25...85°C
Temperature media	-25...105 °C
Load compensation	100 million
Shock load	IEC-68-2-27
Weight	approx. 85 g

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