

8 Pressure measurement SCP analogue

Pressure meter SCP analogue

- Low height
- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- Accuracy $\pm 0.5\%$



Fast response times guarantee the safe capture of pressure peaks in hydraulic systems. The robust stainless steel design allows a variety of applications, for example cooling water or pneumatics.

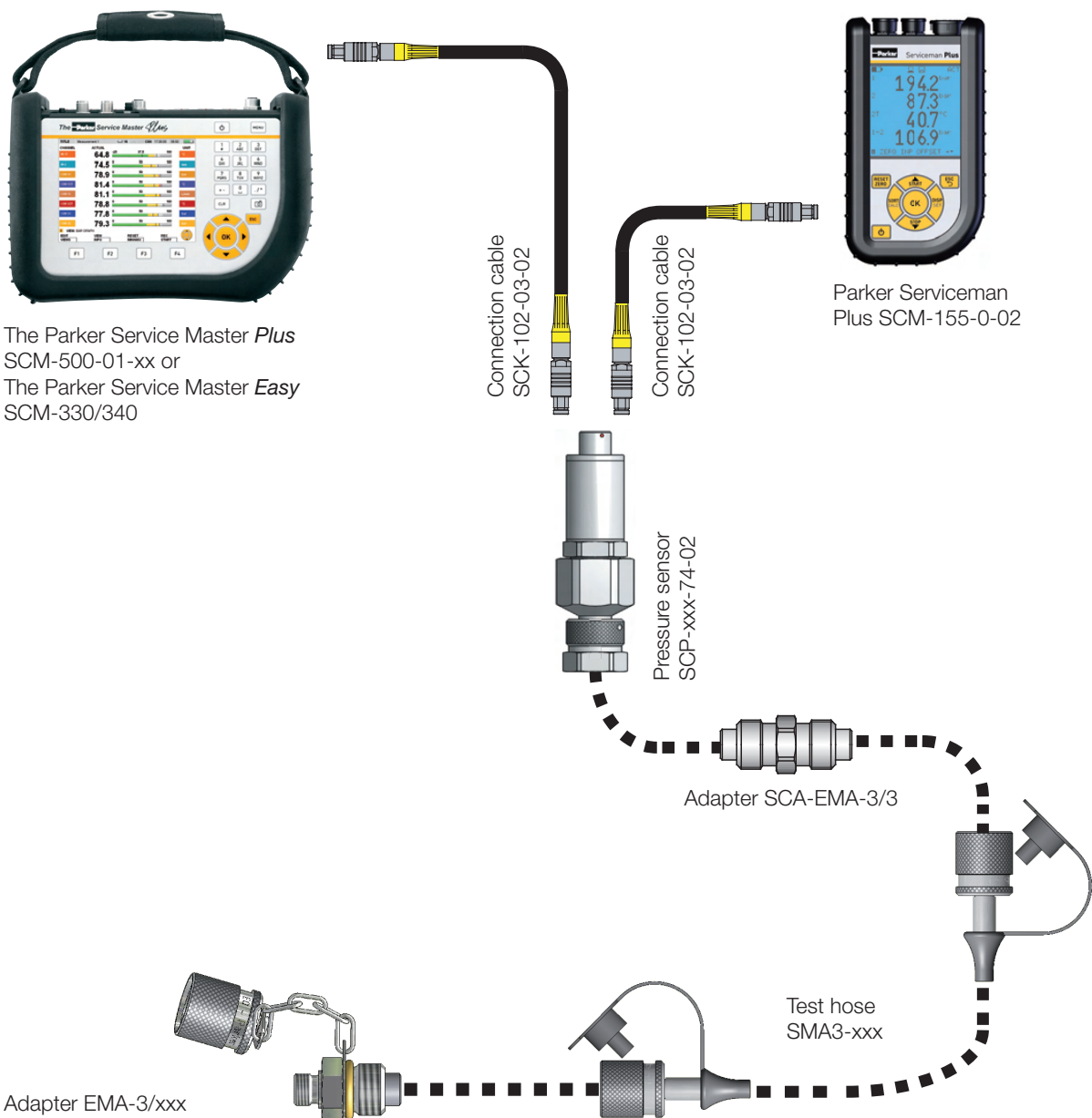
All pressure sensors are delivered with a diagnosis adapter (M16x2) installed. Fast and safe connection to the hydraulic system is ensured. Installation times are reduced.

Pressure measurements

-1 ... 015 bar	Pneumatics/low pressure
0 ... 060 bar	Medium pressure
0 ... 150 bar	Medium pressure
0 ... 400 bar	Operating pressure hydraulics
0 ... 600 bar	High pressure
0 ... 1.000 bar	High pressure peaks

8 Pressure measurement SCP analogue

Function specifications



SCP pressure measurement

There is a selection of different measuring ranges for measuring pressure. Sensors can be used for pneumatic applications and also for measuring pressure peaks of up to 1,000 bar.

Diagnostic adapter

All pressure sensors are provided with a SCA-1/4-EMA-3 diagnostic adapter installed. The pressure sensors can be adapted to all standard measuring connections. They are ideal for quick and flexible diagnostic in hydraulic applications.



8 Pressure measurement SCP analogue

Technical data

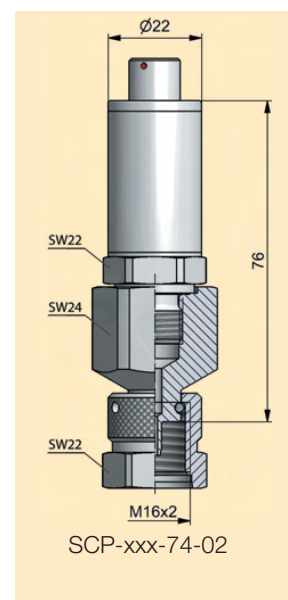
Type	SCP-015	SCP-060	SCP-150	SCP-400	SCP-600	SCP-1000
Measuring range (bar)	-1...015	0...060	0...150	0...400	0...600	0...1,000*
Overload pressure P _{max} (bar)	40	200	500	800	1,000	1,000
Burst pressure (bar)	60	1,000	2,000	2,000	2,000	2,000

*P_N of up to 630 bar, for pressure peaks of up to 1,000 bar

Accuracy		Ambient conditions	
Accuracy FS	± 0.5 % + 0.2 %/year	Ambient temperature (°C)	-25...+85
Response time	1 ms	Storage temperature (°C)	-20...+85
Connections		Media temperature (°C)	-25...+105
Electrical connection	5-pin connector	Reliability cycles	100 million
Process connection	1/4" BSPP	Shock load	50 g/11 ms IEC 60068-2-27
Material		Vibration resistance	20 g as per IEC 60068-2-6
Housing	Stainless steel		
Seal	FKM		
Weight	approx. 200 g		
Type of protection	IP54 EN 60529		

Supply range and accessories

SCP pressure sensor 1/4" BSPP male incl. adapter SCA-1/4-EMA-3	Order code
-1...015 bar/0...060 bar/0...150 bar/ 0...400 bar/0...600 bar/0...1,000 bar	SCP-xxx-74-02
SCP pressure sensor 1/4" BSPP male incl. adapter SCA-1/4-PQC	Order code
-1...015 bar/0...060 bar/0...150 bar/ 0...400 bar/0...600 bar	SCP-xxx-74-02-PQC
SCK analogue connection cable	Order code
3 m (male 5 pin - male 5 pin)	SCK-102-03-02
5-m extension cable (male 5 pin - female 5 pin)	SCK-102-05-12
SCP pressure sensor with calibration certificate as per ISO 9001	Order code
SCP pressure sensor incl. adapter SCA-1/4-EMA-3	K-SCP-xxx-74-02
SCP pressure sensor incl. adapter SCA-1/4-PQC	K-SCP-xxx-74-02-PQC



9 Pressure measurement SCP CAN

Pressure measurement SCP CAN

- Low height
- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- Accuracy $\pm 0.5\%$
- Quick-plug-screw connection SPEEDCON®
- Sensor identification LED
- Suitable for long cables



All the advantages of the analogue SCP sensors are combined with state-of-the-art CAN bus technology. Simple wiring with the SPEEDCON® quick-plug-screw connection. Plug-&Play functionality cuts configuration effort.

All pressure sensors are delivered with a diagnosis adapter (M16x2) installed. Fast and safe connection to the hydraulic system is ensured. Installation times are reduced.

Pressure measurement	
-1 ... 016 bar	Pneumatics/ low pressure
0 ... 060 bar	Medium pressure
0 ... 160 bar	Medium pressure
0 ... 400 bar	Operating pressure hydraulics
0 ... 600 bar	High pressure
0 ... 1,000 bar	High pressure peaks

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9 Pressure measurement SCP CAN

Function specifications



The Parker Service Master *Plus*
SCM-500-xx-xx

Connection cable
SCK-401-02-4F-4M



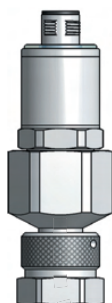
Connection cable
SCK-401-02-4F-4M



Parker Serviceman
Plus SCM-155-2-05



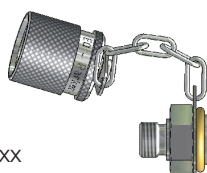
Terminating
resistor
SCK-401-R



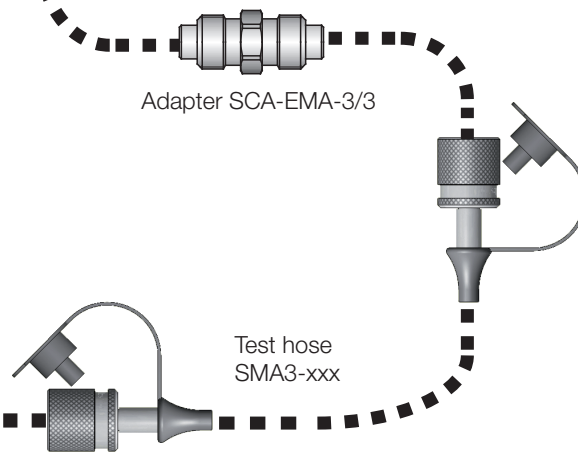
Pressure sensor
SCP-xxx-C4-05



Adapter SCA-EMA-3/3



Adapter EMA-3/xxx



Test hose
SMA3-xxx

Pressure meter SCP

There is a selection of different measuring ranges for measuring pressure. Sensors are available for pneumatic applications and also for measuring pressure peaks up to 1,000 bar.

Diagnostic adapter

All pressure sensors are delivered with an SCA-1/4-EMA-3 diagnostic adapter installed. The pressure sensors can be adapted to all standard measuring connections. They are ideal for quick and flexible diagnostic in hydraulic applications.



9 Pressure measurement SCP CAN

Technical data

Type	SCP-016	SCP-060	SCP-160	SCP-400	SCP-600	SCP-1000
Measuring range (bar)	-1...016	0...060	0...160	0...400	0...600	0...1,000*
Overload pressure P _{max} (bar)	32	120	320	800	1,000	1,000
Burst pressure (bar)	160	550	1,000	1,700	2,000	2,000

*PN of up to 630 bar, for pressure peaks of up to 1,000 bar

Accuracy		Ambient conditions	
Accuracy FS	± 0.5 % + 0.2 %/year	Ambient temperature (°C)	-25...+85
Response time	1 ms	Storage temperature (°C)	-25...+85
Connections		Media temperature (°C)	-25...+105
Electrical connection	M12, 5 pin	Reliability cycles	100 million
Process connection	1/4" BSPP	Shock load	50 g/11 ms IEC 60068-2-27
Material		Vibration resistance	20 g IEC 60068-2-6
Housing	Stainless steel		
Seal	FKM		
Weight	approx. 195 g		
Type of protection	IP67 EN 60529		

Supply range and accessories

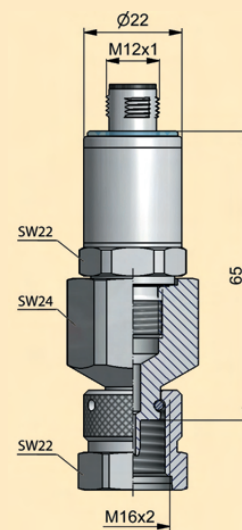
SCP pressure sensor CAN 1/4" BSPP male incl. adapter SCA-1/4-EMA-3	Order code
-1...016 bar/0...060 bar/0...160 bar/0...400 bar/ 0...600 bar/0...1,000 bar	SCP-xxx-C4-05

SCP pressure sensor CAN 1/4" BSPP male incl. adapter SCA-1/4-PQC	Order code
-1...016 bar/0...060 bar/0...160 bar/0...400 bar/0...600 bar	SCP-xxx-C4-05-PQC

SCK connection cables CAN*	Order code
0.5 m (male 5 pin - female 5 pin)	SCK-401-0.5-4F-4M
2 m (male 5 pin - female 5 pin)	SCK-401-02-4F-4M
5 m (male 5 pin - female 5 pin)	SCK-401-05-4F-4M
10 m (male 5 pin - female 5 pin)	SCK-401-10-4F-4M
20 m (male 5 pin - female 5 pin)	SCK-401-20-4F-4M
CAN Y-junction	SCK-401-Y
CAN Y-junction incl. 0.3-m cable	SCK-401-0.3-Y
CAN T-junction	SCK-401-T
Terminating resistor** CAN (female 5 pin - female 5 pin)	SCK-401-R

* Other lengths available on request
** Each CAN network requires a terminating resistor.

SCP pressure sensor CAN with calibration certificate as per ISO 9001	Order code
SCP pressure sensor CAN incl. adapter SCA-1/4-EMA-3	K-SCP-xxx-C4-05
SCP pressure sensor CAN incl. adapter SCA-1/4-PQC	K-SCP-xxx-C4-05-PQC



SCP-xxx-C4-05

Sensors