Pressure measurement SCP analogue

- Small size
- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- Accuracy ±0.5 %
- Laser-welded and labelled



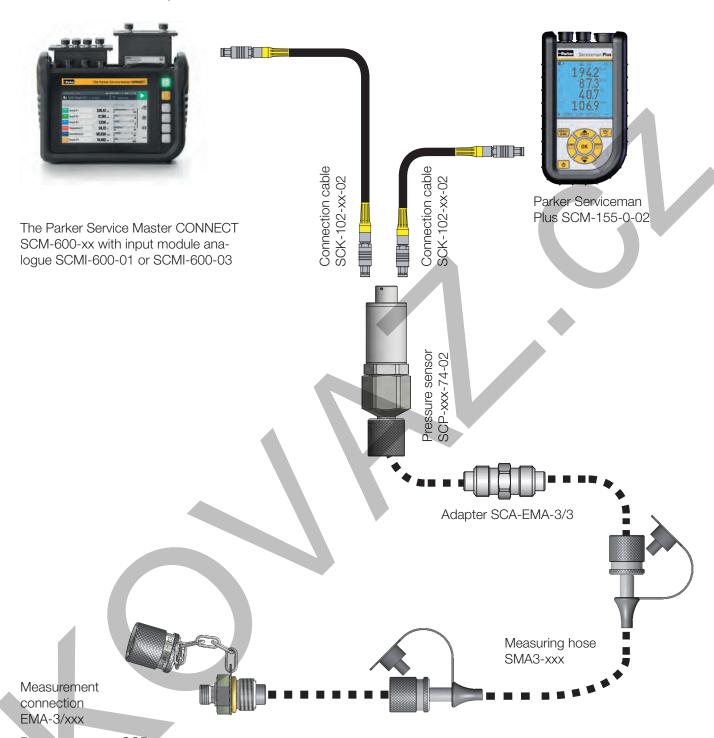
Fast response times guarantee reliable detection of disruptive pressure peaks in the hydraulic system. The robust stainless steel design allows a variety of applications such as for cooling water or in compressed air systems.

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			
-1 015 bar	Pneumatics/negative pressure		
0 060 bar	Medium pressure range		
0 150 bar	Medium pressure range		
0 400 bar	Hydraulic operating pressure		
0 600 bar	High pressure		
0 1000 bar	High pressure peaks		



Functional description



Pressure meter SCP

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.



Technical data

Туре	SCP-015	SCP-060	SCP-150	SCP-400	SCP-600	SCP-1000
Measuring range (bar) (psi)	-1015	0060	0150	0400	0600	01000*
	-14.5218	0870	02320	05800	08700	014500
Overload pressure Pmax (bar) (psi)	40	200	500	800	1000	1000
	464	2900	7250	11600	14500	14500
Burst pressure (bar)	60	1000	2000	2000	2000	2000
(psi)	870	14500	29000	29000	29000	29000

 $^{^{\}star}\,\mathrm{P}_{_{\mathrm{N}}}$ 630 bar, for pressure peaks up to 1000 bar

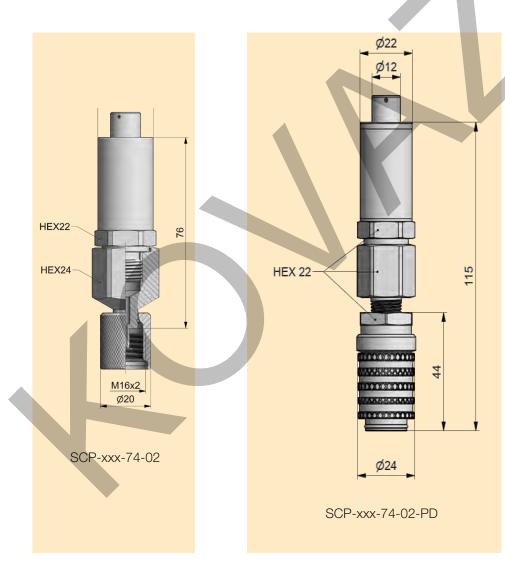
Accuracy		
Accuracy FS	± 0.5 % + 0.2 %/year	
Response time	2 ms	
Connections		
Electrical connection	5-pin, plug-in connection	
Process connection	1/4" BSPP	
Material		
Housing	Stainless steel	
Seal	FKM	
Weight	approx. 200 g	
Protection class	IP54 EN 60529	

Ambient conditions	
Ambient temperature (°C) (°F)	-25+85 -13+185
Storage temperature (°C) (°F)	-20+85 -13+185
Media temperature (°C) (°F)	-25+105 -13+221
Load change	100 mil.
Shock load	50 g/11 ms IEC 60068-2-27
Vibrations	20 g as per IEC 60068-2-6



Supply range and accessories

SCP pressure sensor 1/4" BSPP male incl. adapter SCA-1/4-EMA-3	Order designation
-1015 bar/0060 bar/0150 bar/0400 bar/0600 bar/01000 bar	SCP-xxx-74-02
SCP pressure sensor 1/4" BSPP male incl. adapter SCA-1/4-PQC	Order designation
-1015 bar/0060 bar/0150 bar/	SCP-xxx-74-02-PD
0400 bar/0600 bar	
SCP pressure sensor with calibration certificate as per ISO 9001	Order designation
SCP pressure sensor incl. adapter SCA-1/4-EMA-3	K-SCP-xxx-74-02
SCP pressure sensor incl. PD adapter	K-SCP-xxx-74-02-PD
SCK connection cables analogue	Order designation
3 m (male 5 pin - male 5 pin)	SCK-102-03-02
5 m (male 5 pin - male 5 pin)	SCK-102-05-02
5 m extension (male 5 pin - female 5 pin)	SCK-102-05-12





Pressure measurement SCP CAN

- Small size
- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- Accuracy ±0.5 %
- SPEEDCON® quick plug-in screw connection
- Sensor identification light ring
- Suitable for long cables
- Laser-welded and labelled



All the advantages of analogue SCP sensors combined with future-proof CAN bus technology. Simple wiring thanks to the SPEEDCON quick plug-in screw connection®. Plug & Play functionality without lots of configuration.

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			
-1 004 bar	Pneumatics/negative pressure		
-1 010 bar	Pneumatics/negative pressure		
-1 016 bar	Pneumatics/negative pressure		
0 025 bar	Lower pressure range		
0 060 bar	Medium pressure range		
0 160 bar	Medium pressure range		
0 250 bar	Medium pressure range		
0 400 bar	Hydraulic operating pressure		
0 600 bar	High pressure		
0 1000 bar	High pressure peaks		

SPEEDCON® is a registered trademark of PHOENIX CONTACT GmbH & Co. KG



Functional description



Pressure meter SCP

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.



Technical data

Туре	SCP-004	SCP-010	SCP-016	SCP-025	SCP-060
Measuring range (bar) (psi)	-1004	-1010	-1016	0025	0060
	-14.558	-14.5145	-14.5232	0363	0870
Overload pressure Pmax (bar) (psi)	20	20	32	50	120
	290	290	464	725	1740
Burst pressure (bar)	100	100	160	250	550
(psi)	1450	1450	2320	3625	7970

 $^{^{*}}$ P_N 630 bar, for pressure peaks up to 1000 bar

Туре	SCP-160	SCP-250	SCP-400	SCP-600	SCP-1000
Measuring range (bar) (psi)	0160	0250	0400	0600	01000*
	02320	03625	05800	08700	014500
Overload pressure Pmax (bar) (psi)	320	500	800	1000	1000
	4640	7250	11600	14500	14500
Burst pressure (bar)	1000	1700	2000	2000	2000
(psi)	14500	24650	29000	29000	29000
* P _N 630 bar, for pressure peaks up to 1	000 bar				

Accuracy	
Accuracy FS	± 0.5 % + 0.2 %/year
Response time	1 ms
Connections	
Electrical connection	M12, 5 pin
Process connection	1/4" BSPP
Material	
Housing	Stainless steel
Seal	FKM
Weight	approx. 195 g
Protection class	IP67 EN 60529

Ambient conditions	,
Ambient temperature (°C)	-25+85
(°F)	-13+185
Storage temperature (°C)	-25+85
(°F)	-13+185
Media temperature (°C)	-25+105
(°F)	-13+221
Load change	100 mil.
Shock load	50 g/11 ms
Y	IEC 60068-2-27
Vibrations	20 g
	IEC 60068-2-6



Supply range and accessories

SCP pressure sensor CAN 1/4" BSPP male incl. adapter SCA-1/4-EMA-3	Order designation
-1004 bar/-1010 bar/-1016 bar/ 0025 bar/0060 bar/0160 bar/ 0250 bar 0400 bar/0600 bar/01000 bar	r/ SCP-xxx-C4-05
SCP pressure sensor CAN 1/4" BSPP male incl. adapter SCA-1/4-PD	Order designation
-1004 bar/-1010 bar/-1016 bar/0060 bar/0160 bar/0400 bar/0600 bar	SCP-xxx-C4-05-PD
SCK connection cables CAN*	Ouder designation
	Order designation
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
Y-junction CAN	SCK-401-Y
Y-junction CAN incl. 0.3-m cable	SCK-401-0.3-Y
T-junction CAN	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 designation
SCP pressure sensor CAN incl. adapter SCA-1/4-EMA-3	K-SCP-xxx-C4-05
SCP pressure sensor CAN incl. PD adapter	K-SCP-xxx-C4-05-PD

