

10 Pressure/temperature measurement SCPT analogue

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- 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 diagnostic adapter (M16x2) installed. Fast and safe connection to the hydraulic system is ensured. Installation times are reduced.

Pressure measurements

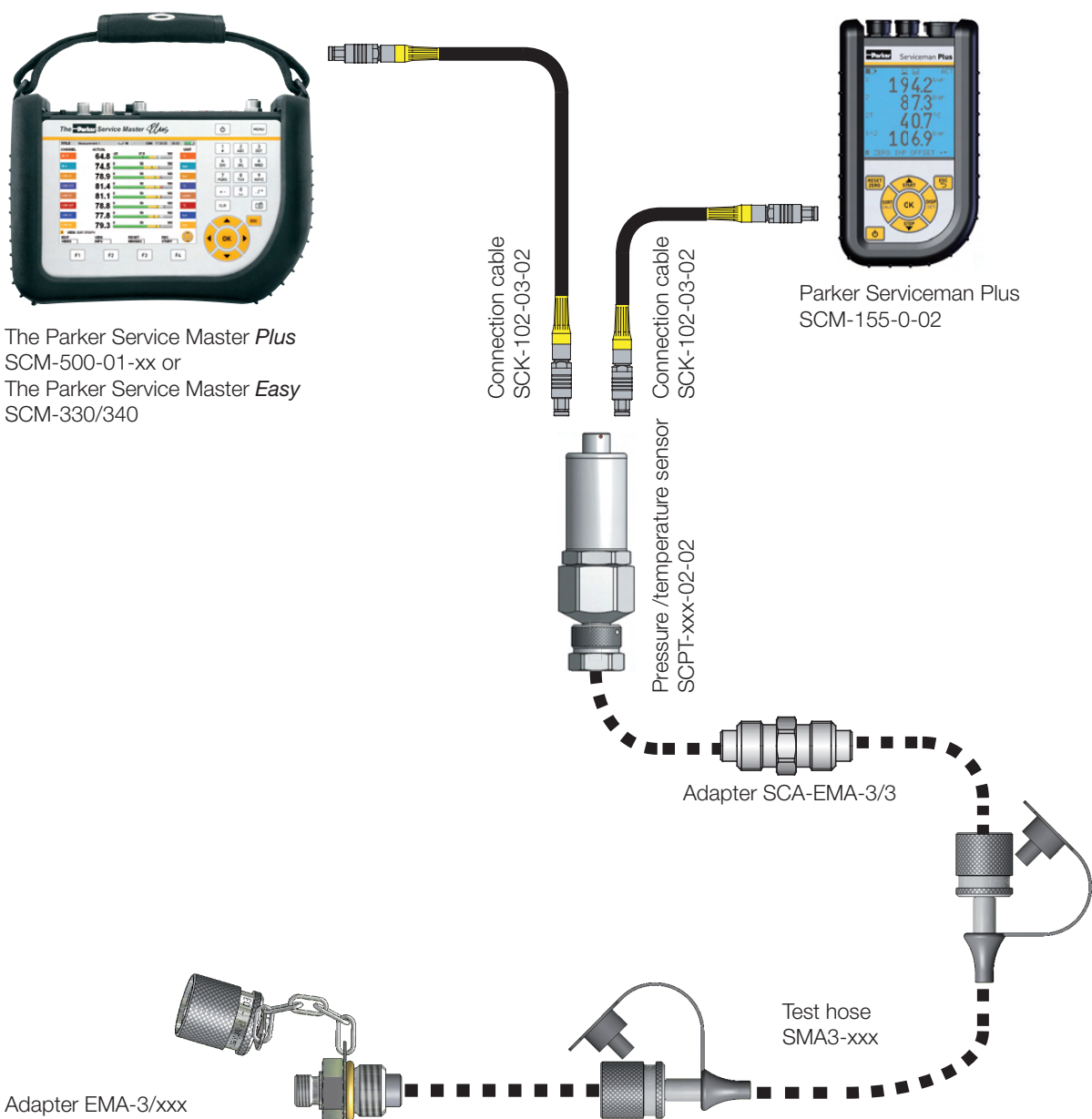
-1 ... 015 bar	Pneumatics/ low pressure
0 ... 060 bar	Medium pressure
0 ... 150 bar	Medium pressure
0 ... 400 bar	Operating pressure hydraulics
0 ... 600 bar	High pressure
0 ... 1,000 bar	High pressure peaks

Temperature measurements

-25...+105 °C	Temperature
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Function specifications



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

Diagnostic adapter

All pressure/temperature sensors are delivered with an SCA-1/2-EMA-3 diagnostic adapter installed. The sensors can be adapted to all standard measuring connections. They are ideal for quick and flexible diagnostic in hydraulic applications.



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Technical data

Type	SCPT-015	SCPT-060	SCPT-150	SCPT-400	SCPT-600	SCPT-1000
Measuring range (bar)	-1...015	0...060	0...150	0...400	0...600	0...1,000*
Overload pressure P _{max} (bar)	32	120	320	800	1,000	1,000
Burst pressure (bar)	180	550	1,000	1,200	2,000	2,000
Temperature measuring range (°C) Accuracy ± 3 K	-25...+105	-25...+105	-25...+105	-25...+105	-25...+105	-25...+105

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

Accuracy		Ambient conditions	
Accuracy FS	max. ±0.5 % + 0.2 %/year	Ambient temperature (°C)	-20...+85
Response time	1 ms	Storage temperature (°C)	-25...+125
Connections		Media temperature (°C)	-25...+105
Electrical connection	5 pin plug connection	Reliability cycles	100 million
Process connection	1/2" BSPP	Shock load	50 g/11 ms IEC 60068-2-29
Material		Vibration resistance	20 g IEC 60068-2-6
Housing	Stainless steel		
Seal	FKM		
Weight	approx. 320 g		
Type of protection	IP54 EN 60529		

Supply range and accessories

SCPT pressure/temperature sensor 1/2" BSPP male incl. adapter SCA-1/2-EMA-3	Order code
-1...015 bar/0...060 bar/0...150 bar/ 0...400 bar/0...600 bar/0...1,000 bar	SCPT-xxx-02-02
SCPT pressure/temperature sensor 1/2" BSPP male incl. adapter SCA-1/2-PQC	Order code
-1...015 bar/0...060 bar/0...150 bar/ 0...400 bar/0...600 bar	SCPT-xxx-02-02-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
SCPT pressure/temperature sensor with calibration certificate as per ISO 9001	Order code
SCPT pressure/temperature sensor incl. adapter SCA-1/2-EMA-3	K-SCPT-xxx-02-02
SCPT pressure/temperature sensor incl. adapter SCA-1/2-PQC	K-SCPT-xxx-02-02-PQC

