10 Pressure/temperature measurement SCPT analogue

Pressure/temperature measurement SCPT analogue

- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- Accuracy ±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



The Parker Service Master *Plus*
SCM-500-01-xx or
The Parker Service Master *Easy*
SCM-330/340

Connection cable
SCK-102-03-02



Parker Serviceman Plus
SCM-155-0-02

Connection cable
SCK-102-03-02

Pressure /temperature sensor
SCPT-xxx-02-02

Adapter SCA-EMA-3/3

Test hose
SMA3-xxx

Adapter EMA-3/xxx

Pressure/temperature measurement SCPT
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 Pmax (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	
Accuracy FS	max. ±0.5 % + 0.2 %/year
Response time	1 ms
Connections	
Electrical connection	5 pin plug connection
Process connection	1/2“ BSPP
Material	
Housing	Stainless steel
Seal	FKM
Weight	approx. 320 g
Type of protection	IP54 EN 60529

Ambient conditions	
Ambient temperature (°C)	-20…+85
Storage temperature (°C)	-25...+125
Media temperature (°C)	-25...+105
Reliability cycles	100 million
Shock load	50 g/11 ms IEC 60068-2-29
Vibration resistance	20 g IEC 60068-2-6

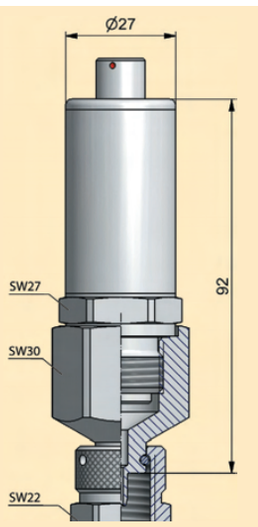
Supply range and accessories

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) 5-m extension cable (male 5 pin - female 5 pin)	SCK-102-03-02 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



SCPT-xxx-02-02

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