11 Pressure/temperature measurement SCPT CAN

Pressure/temperature measurement SCPT CAN

- Robust stainless steel design
- Response times of 1 ms
- Capturing of pressure peaks
- State-of the-art CAN bus technology
- Simple wiring with SPEEDCON®
- Sensor identification LED
- Suitable for long cables
- Accuracy ±0.5 %



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

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... 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
Temperature measurements	
-25...+105 °C	Temperature

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Technical data

Type	SCPT-016	SCPT-060	SCPT-160	SCPT-400	SCPT-600	SCPT-1000
Measuring range (bar)	-1…016	0…060	0...160	0...400	0...600	0...1,000*
Overload pressure Pmax (bar)	32	120	320	800	1,000	1,000
Burst pressure (bar)	160	550	1,000	1,700	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	± 0.5 % + 0.2 %/year
Response time	1 ms
Connections	
Electrical connection	5 pin, M12x1, connector
Process connection	1/2“ BSPP
Material	
Housing	Stainless steel
Seal	FKM
Weight	200 g
Type of protection	IP67 EN 60529

Ambient conditions	
Ambient temperature (°C)	-25…+85
Storage temperature (°C)	-25...+85
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

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Supply range and accessories

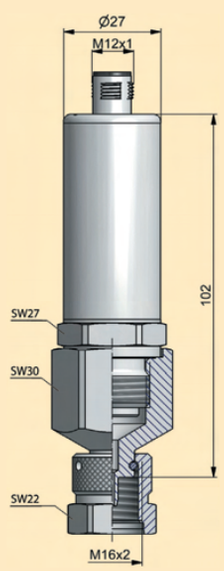
SCPT pressure/temperature sensor CAN 1/2" BSPP male incl. adapter SCA-1/2-EMA-3	Order code
-1…016 bar/0…060 bar/0...160 bar/ 0...400 bar/0...600 bar/0...1,000 bar	SCPT-xxx-C2-05

SCPT pressure/temperature sensor 1/2" BSPP male incl. adapter SCA-1/2-PQC	Order code
-1…016 bar/0…060 bar/0...160 bar/ 0...400 bar/0...600 bar	SCPT-xxx-C2-05-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.

SCPT pressure/temperature sensor CAN with calibration certificate as per ISO 9001	Order code
SCPT pressure/temperature sensor CAN incl. adapter SCA -1/2-EMA-3	K-SCPT-xxx-C2-05
SCPT pressure/temperature sensor CAN incl. adapter SCA -1/2-PQC	K-SCPT-xxx-C2-05-PQC



SCPT-xxx-C2-05

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