

## 5 Temperature Measurement

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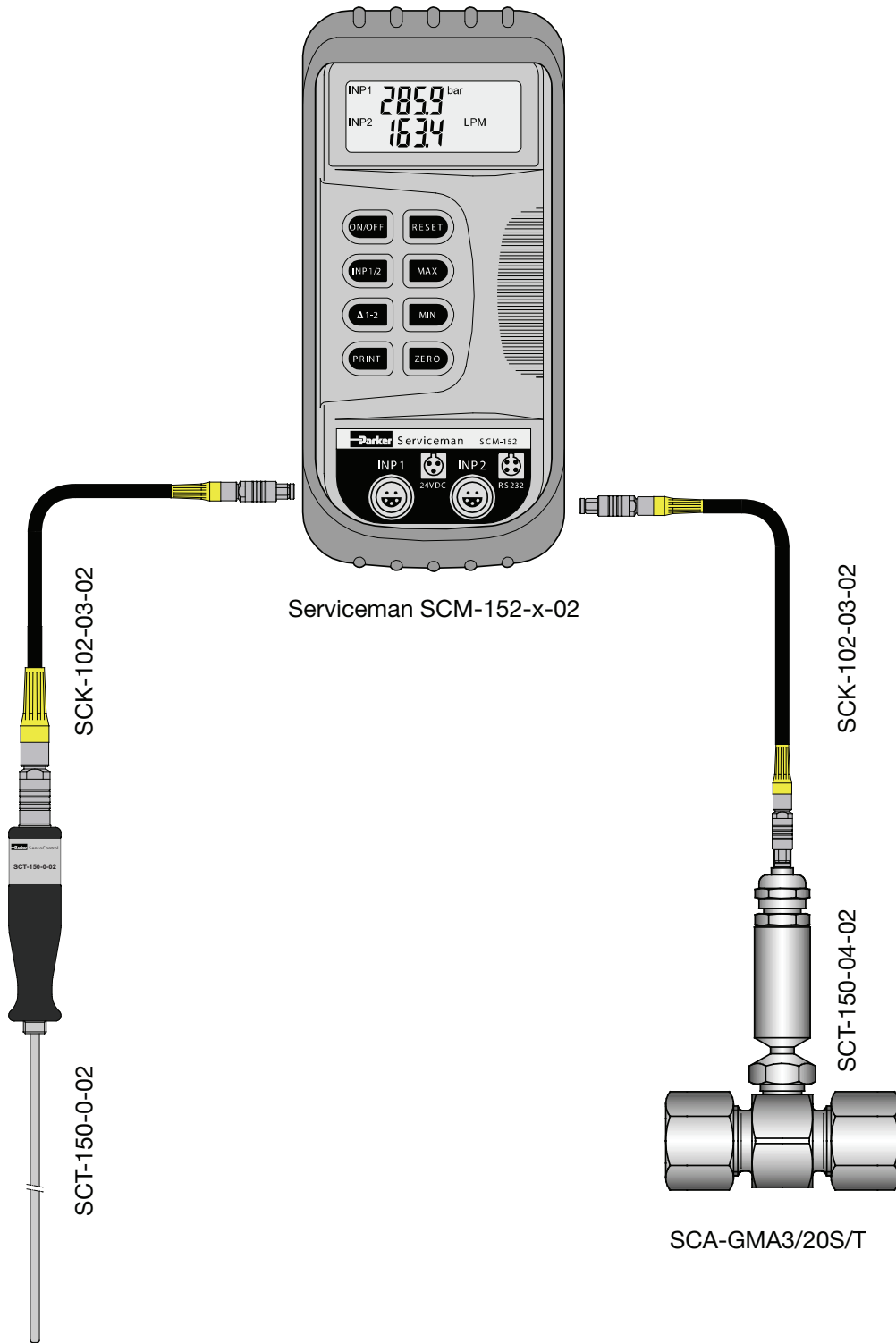
- High pressure-proof temperature sensor
- Measurement of oil temperatures up to 125 °C
- Flexible operation
- Screw-in or manual sensor
- Screw-in sensor with socket for Serviceman and Service Master

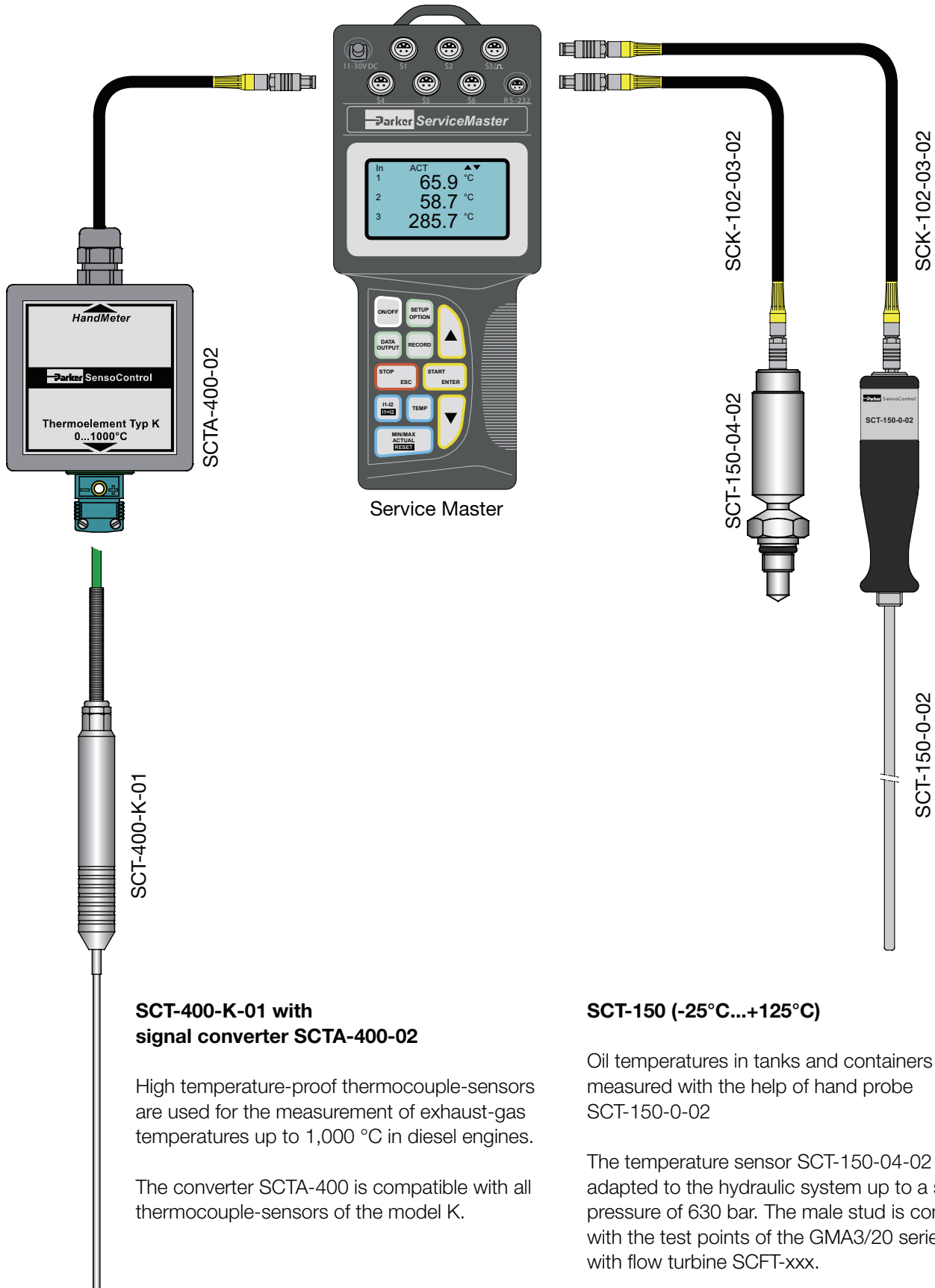


In hydraulics, temperature measurements serve to locate faults and avoid the kind of damage caused by excessive oil temperatures in critical parts such as pumps and proportional valves.

To get the exact temperature, the measurement is done directly in the tube or hose line.

The screw-in sensors SCT-150 are compatible with flow measurement turbines SCFT-xxx-02-02.





**SCT-400-K-01 with signal converter SCTA-400-02**

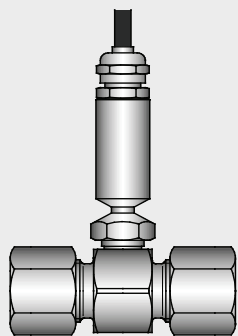
High temperature-proof thermocouple-sensors are used for the measurement of exhaust-gas temperatures up to 1,000 °C in diesel engines.

The converter SCTA-400 is compatible with all thermocouple-sensors of the model K.

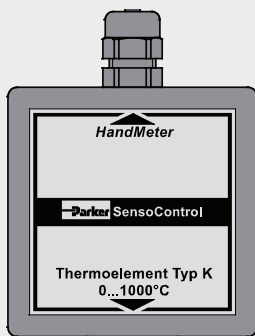
**SCT-150 (-25°C...+125°C)**

Oil temperatures in tanks and containers are measured with the help of hand probe SCT-150-0-02

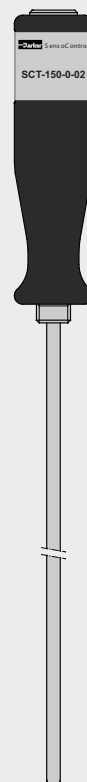
The temperature sensor SCT-150-04-02 can be adapted to the hydraulic system up to a system pressure of 630 bar. The male stud is compatible with the test points of the GMA3/20 series and with flow turbine SCFT-xxx.



IN-LINE Sensor  
SCT-150-04-02  
with IN-LINE adaptor



Signal converter  
SCTA-400-02



Handprobe  
SCT-150-0-02



SCT-400-K-01

SCT IN-LINE Sensor M10x1	#
SCT-150 with female connector (5 pin)	SCT-150-04-02
IN-LINE adaptor with M10 port	SCA-GMA3/20S/T

<b>SCT-150 IN-LINE Adaptor Tube assembly (5 pin)</b>	SCT-150-0-02
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Connection cables SCT-150-04-02/SCT-150-0-02	#
Serviceman (4 pin) 2 m	SCK-102-02-08
Serviceman/Service Master (5 pin) 3 m	SCK-102-03-02
Extension 5 m	SCK-102-05-12

	SCT-150-04-02	SCT-150-0-02	SCT-400-K-01	SCTA-400-02
Measuring Range (°C)	-25...+125	-25...+125	0...+1.000	0...+1.000
Accuracy	± 1,5°C	± 1,5°C	± 1,5°C	± 1,0%FS
Response Time T <sub>0,9</sub> (sec.)	13,5	9,1	≤ 5	-
Ambient Temperature (°C)	-25...+70	-25...+70	-20...+150	0...+50
Storage Temperature (°C)	-25...+80	-25...+80	-20...+80	-25...+60
T <sub>max</sub> (°C)	+125	+125	-	-
Operating Pressure (bar)	630	-	-	-
P <sub>max</sub> (bar)	630	-	-	-
Burst Pressure (bar)	1.200	-	-	-
Housing	Steel C15K galvanized	Probe: Stainless Steel 1.4304 Grip: Delrin	Stainless Steel	ABS
Seal	Viton® (FKM )	-	-	-
Weight (g)	100	120	150	-
Parts in Contact with Media	Steel C15K galvanized Viton® (FKM )	Stainless Steel 1.4304	Stainless Steel	-

FS = FullScale