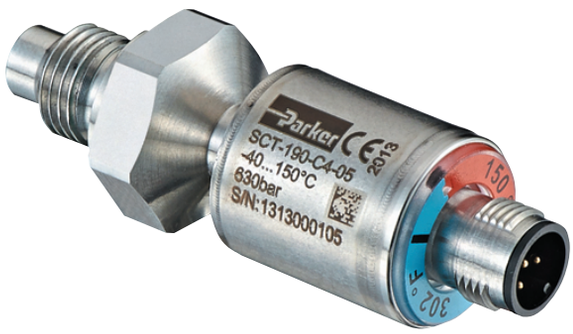
13 Temperature measurement SCT CAN

Temperature measurement SCT CAN

- High-pressure-resistant temperature sensors for hydraulic measurements
- For measuring temperatures of up to 150°C
- Flexible operation
- Inline sensor
- Sensor identification LED
- Accuracy ±0.66 %
- Quick-plug-screw connection SPEEDCON®
- Suitable for long cables



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

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

SCT-190 inline sensors can also be used with the SCFT turbine flow meters for measuring temperatures.

13 Temperature measurement SCT CAN

Function specifications



The Parker Service Master *Plus*
SCM-500-xx-xx

Connection cable
SCK-401-02-4F-4M

Connection cable
SCK-401-02-4F-4M

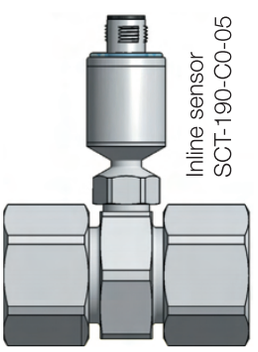




Parker Serviceman
Plus SCM-155-2-05



Terminating
resistor
SCK-401-R



Inline sensor
SCT-190-C0-05

IN-LINE adapter
SCA-GMA3/20S/T

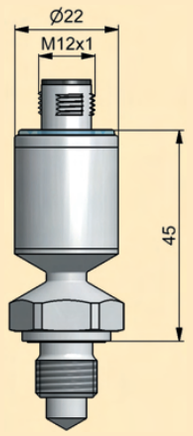
Inline sensor SCT-190 (-40 °C...+150 °C)

The inline sensor SCT-190-C0-05 can be adapted to the hydraulic system up to a system pressure of 630 bar.
The male stud is compatible with the measuring connections of the GMA3/20 series and the turbine flow meter SCFT-xxx.

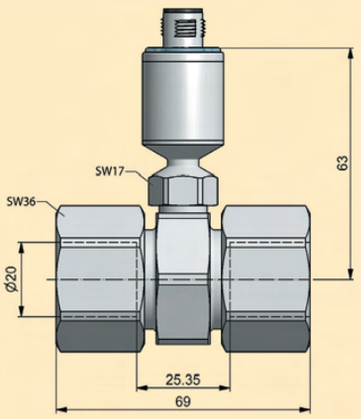
Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

13 Temperature measurement SCT CAN

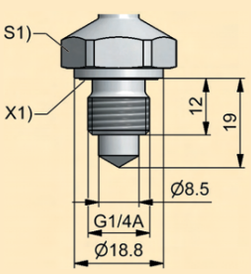
Technical data



Inline sensor

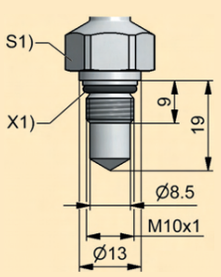


Inline sensor
SCT-190-C0-05
with IN-LINE adapter
SCA-GMA3/20S/T



SCT-190-C4-05

G1/4" connection
S1) = SW22
X1) = ED seal 14x1.5



SCT-190-C0-05

M10x1 connection
S1) = SW17
X1) = O-ring 7.65x1.78

Type	SCT-190-C0-05	SCT-190-C4-05
Measuring range (°C)	-40 … +150	-40 … +150
Accuracy	± 0.66% FS	± 0.66% FS
Response time	$T_{50} \leq 4s$, $T_{90} \leq 12s$	$T_{50} \leq 4s$, $T_{90} \leq 14s$
Ambient temperature (°C)	-40 … +85 @ meas.T ≤ 85 °C -40 … +70 @ meas.T > 85 °C	-40 … +85 @ meas.T ≤ 85 °C -40 … +70 @ meas.T > 85 °C
Storage temperature (°C)	-40 … +85	-40 … +85
Operating pressure (bar)	630	630
Overload pressure (bar)	800	800
Burst pressure (bar)	2,000	2,000
Housing	Stainless steel	Stainless steel
Seal	FKM**	FKM**
Weight (g)	55	70
Parts in contact with media	Stainless steel	Stainless steel

* FS = Full scale (measuring range end value)
** for temperatures of -25...+150 °C, other materials on request

13 Temperature measurement SCT CAN

Supply range and accessories

SCT temperature sensors CAN	Order code
Inline sensor (M10x1)	SCT-190-C0-05
Inline sensor (G1/4" BSPP male)	SCT-190-C4-05
IN-LINE adapter tube assembly (M10x1)	SCA-GMA3/20S/T

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.

SCT temperature sensors CAN with calibration certificate as per ISO 9001*	Order code
Inline sensor (M10x1)	K-SCT-190-C0-05
Inline sensor (G1/4" BSPP male)	K-SCT-190-C4-05

* calibrated range -25...+100 °C

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark