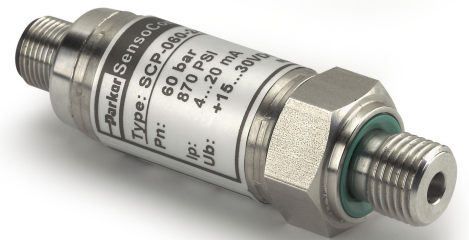


# SCP-Mini

The SCP-Mini pressure transmitters contain only a small number of active components, such as the sensor element, a signal processing ASIC and a U/I converter circuit. Calibration takes place electronically, so that the pressure transmitters display a comparably small total error and are stable in the long term. The hermetically welded thin film-measuring cell ensures a high degree of long term resistance to leakage and stability. The ASIC is a programmable precision CMOS ASIC with EEPROM data storage and analogue signal path, which is suitable for an extended operating temperature range.

The special steel membrane is completely vacuum-tight, burst-proof and can be used with all standard media in hydraulics, pneumatics, environmental technology, process technology, semi-conductor technology and automotive engineering, in as far as they are compatible with special steel. This thereby covers use in standard applications in mobile hydraulics and in other areas of application.

The great exactness and the robust, compact structure guarantee a broad range of possible uses in industry. On the basis of the combinability of different mechanical and electronic connections, a variety of different pressure transmitters is offered.



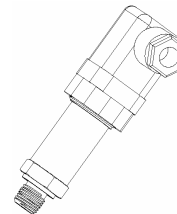
## Pressure range

004; 006; 010; 016; 025;  
040; 060; 100; 160, 250;  
400; 600 bar

## DIN EN 175301-803 Form A, G1/4 (BSPP), class 0,5%

0...20 mA  
4...20 mA, 3-wire  
4...20 mA, 2-wire  
0...10 V

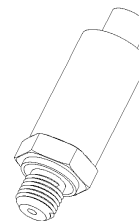
**SCP-XXX-14-06**  
**SCP-XXX-24-06**  
**SCP-XXX-34-06**  
**SCP-XXX-44-06**



## M12 Socket Connector, G1/4 (BSPP), class 0,5%

0...20 mA  
4...20 mA, 3-wire  
4...20 mA, 2-wire  
0...10 V

**SCP-XXX-14-07**  
**SCP-XXX-24-07**  
**SCP-XXX-34-07**  
**SCP-XXX-44-07**



## Connection cable & Connector

### Connection cable, screened

(one side with blank wires)

**SCK-400-XX-XX**

### Cable length in m

**02** = 2 m ; **05** = 5 m ; **10** = 10 m

### Socket connection

**45** M12 Connector, straight  
**55** M12 Connector, 90° elbow  
**56** DIN EN 175301-803 Form A Plug

### Separate Connector

M12 Connector, straight  
M12 Connector, 90° elbow  
DIN EN 175301-803 Form A Plug

**SCK-145**  
**SCK-155**  
**SCK-006**

# SCP-Mini

SCP-	004	006	010	016	025	040	060	100	160	250	400	600
Pressure range (bar) 0...	4	6	10	16	25	40	60	100	160	250	400	600
	relative pressure						absolute pressure					
Overload pressure max. (bar)							2-times					
Burst-pressure min. (bar)							3-times					
							2,5-times					

## Pressure port

### Connection to measuring media

Threaded stud  
G1/4A  
DIN 3852 T11, Form E

### Drilling

0,6mm

### Seal

Seal DIN 3869-14-FKM

### Materials: Viton,

Stainless Steel 1.4301,  
1.4542, 1.4548, 17-4PH

## Electrical Connection

Short-circuit protection<sup>\*1</sup>  
Polarity-reversal protection  
Protectionclass 3

## Plug connector

4-pin, M12x1, IP 67<sup>\*2</sup>

4-pin, DIN EN 175301-803 Form A, IP65<sup>\*2</sup>

## Accuracy

### Characteristic curve deviation

Max.  $\leq \pm 0,5$  %FS  
Total error<sup>\*3</sup> at -20...85 °C  
Typ.  $\leq \pm 0,7$  %FS, max.  $\leq \pm 1$  %FS

## Thermal coefficient

Zero point  
Max.  $\leq \pm 0,3$  %FS/10 K  
Sensitivity  
Max.  $\leq \pm 0,3$  %FS/10 K

## Environmental conditions

Working temperature range  
-40...+85 °C  
Fluid temperature range  
-40...+125 °C  
Compensated range  
-20...+85 °C  
Storage temperature  
-40...+125 °C

## General

### Response time

typ. 0,5 ms ; max. 1 ms

### Long-term stability

< 0,1 %FS/a

### Load alternating cycles

>20 Mio.

### Weight

ca. 80 g

### Vibration resistance

IEC 60068-2-6:  
 $\pm 5$  mm / 10 Hz...32 Hz  
200 m/s<sup>2</sup> / 32 Hz...2 kHz

### Shock resistance

IEC 60068-2-29: 500 m/s<sup>2</sup> 11 ms  
IEC 60068-2-32:  
1 m ( free-fall onto steel plate) <sup>\*4</sup>

### EM-according <sup>\*5</sup>

DIN EN 61000-6-3  
DIN EN 61000-6-2

<sup>\*1</sup> with outputsignal 0...10V short-circuit protection short-time

<sup>\*2</sup> in connected situation

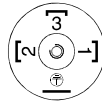
<sup>\*3</sup> including non-linearity, hysteresis, repeatability, Calibration, temperature influence

<sup>\*4</sup> not for electrical Connector (plug)

<sup>\*5</sup> Details see declaration-sheet

Output signal	0...20 mA 3-wire	4...20 mA 3-wire	4...20 mA 2-wire	0...10 V
Auxiliary power +Ub (U <sub>DC</sub> )	9...30 V	9...30 V	12...30 V	12...30 V
Load impedance max.	(U <sub>b</sub> -9 V)/28 mA	(U <sub>b</sub> -9 V)/30 mA	(U <sub>b</sub> -12 V)/20 mA	$\geq 5$ kOhm

DIN Plug



Connection Transmitter (ViewTransmitter):

Connector M12



PIN	0...20 mA 3-wire	4...20 mA 3-wire	4...20 mA 2-wire	0...10 V
1	P-Signal	P-Signal	P-Signal	P-Signal
2	0 V / GND	0 V / GND	n.c.	0 V / GND
3	+Ub	+Ub	+Ub	+Ub
	NC: Do Not connect!			

PIN	0...20 mA 3-wire	4...20 mA 3-wire	4...20 mA 2-wire	0...10 V
1	+Ub	+Ub	+Ub	+Ub
2	P-Signal	P-Signal	P-Signal	P-Signal
3	0 V / GND	0 V / GND	n.c.	0 V / GND
4	n.c.	n.c.	n.c.	n.c.

