

# STAINLESS STEEL STANDARD PRESSURE SENSOR SPS 3003



The SPS 3003 series of stainless steel pressure sensors with integrated pressure connector provides reliable operation in applications with aggressive media. There is no need for a seal between the sensor measuring cell and pressure connection. The high overload capacity and very high burst pressure rating are additional advantages of this sensor. In the case of an error or undefined peaks in pressure, the medium remains in the system



TECHNICAL SPECIFICATIONS	
Resistance/Tolerance	10 kOhm $\pm$ 20%
Output span signal	1.5...3.5 mV/V
Maximum current I <sub>max</sub> .	4 mA
Linearity, hysteresis, reproducibility (depends on pressure range)	$\leq \pm 0.4...1.5\%$ FS ***
Supply voltage	5...30 V
Zero point offset	-0.5...0 mV/V
Stability of zero point (1000h @ 125°C)	$\leq 0.4\%$ FS
Insulation resistance	100 MOhm at 500 VDC, 25°C, 75% rel. humidity
Temperature error, zero point (TK 0 0...85°C)	$\leq \pm 0.03\%$ FS/K
Temperature error, span (TK S 0 - 85°C)	$\leq \pm 0.03\%$ FS/K typ. ( $\leq \pm 0.05\%$ FS/K max.)
Nominal/Operating/Storage temperature range	-40...125°C
Electrical connectors	Tinned solder pads
Pressure type	Relative pressure

NOMINAL PRESSURE	SPAN	OVERLOAD PRESSURE	BURST PRESSURE	VACUUM
10 bar	1.5...3.5 mV/V	20 bar	> 50 bar	Vacuum-resistant
25 bar	1.5...3.5 mV/V	50 bar	> 125 bar	Vacuum-resistant
40 bar	1.5...3.5 mV/V	80 bar	> 200 bar	Vacuum-resistant
60 bar	1.5...3.5 mV/V	120 bar	> 300 bar	Vacuum-resistant
100 bar	1.5...3.5 mV/V	200 bar	> 500 bar	Vacuum-resistant
160 bar	1.5...3.5 mV/V	320 bar	> 650 bar	Vacuum-resistant
250 bar	1.5...3.5 mV/V	500 bar	> 750 bar	Vacuum-resistant
400 bar	1.5...3.5 mV/V	800 bar	> 1200 bar	Vacuum-resistant
600 bar	1.5...3.5 mV/V	1200 bar	> 1800 bar	Vacuum-resistant
1000 bar	1.5...3.5 mV/V	2000 bar	> 2500 bar	Vacuum-resistant

Mechanical and electrical characteristics are customisable. Specifications are subject to change without notice. \*\*\* at max. setting acc. to DIN 16086

SAMPLE ORDER		
Type	Pressure range in bar	Electrical connection (acc. to drawing)
SPS 3003	100 bar	Solder pads
Other dimensions and electrical specifications on request.		

## DIMENSIONAL DRAWINGS / CONNECTOR SCHEMATIC / ELECTRICAL CONNECTORS

