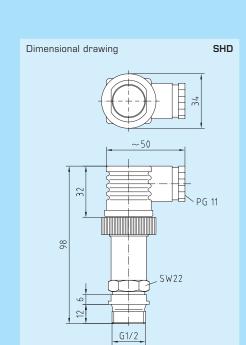
Pressure measuring transducers with active output



SHD

The pressure measuring transducer PREMASGARD® SHD measures relative pressures in the bar range. It converts the measurand pressure into standard signals of O-10V or 4...20mA. Process connection is G1/2" straight external pipe thread. $\ensuremath{\mathsf{PREMASGARD}}\xspace^{\scriptsize{\scriptsize{\scriptsize{\$}}}}$ SHD is used for pressure measurement in gaseous and liquid media. Applications of this pressure transmitter are in hydraulics, pneumatics, process technology, in mechanical and plant engineering. The stainless steel membrane is absolutely vacuum-tight.

TECHNICAL DATA:	
Power supply:	. 24 V AC for output O -10 V
	12 - 32 V DC for output 420 mA,
	R _L depending on working resistance
Measuring ranges:	. see table
	(other ranges upon request)
Output signal:	. O-10 V 3-wire, working resistance R _A ≥2 kΩ or
	420mA 2-wire, working resistance
	$R_A(Ohm) = (UB(V)-10V)/0.02A$
Electrical connection:	. 0.14 - 1.5 mm², via terminal screws inside
	right angle plug connector shape C
Pressure connection:	pipe thread G1/4", including adapter for G1/2"
	straight external pipe thread (other connections on request)
Type of pressure:	. relative
Measuring principle:	. thin-film, piezo-resistive on steel membrane
Temperature of medium:	40+100°C
Mounting:	. directly on pressure line
Enclosure:	. stainless steel
Connecting head:	. plastic, ca. 98x50x34mm
Medium contacting parts:	. stainless steel 1.4301 X 5 CrNi 18-10,
	O rings, no silicone oil



Mounting:	directly on pressure line
Enclosure:	stainless steel
Connecting head:	plastic, ca. 98x50x34mm
Medium contacting parts:	stainless steel 1.4301 X 5 CrNi 18-10,
	O rings, no silicone oil
Response time:	1.5 ms
Class:	0.5%
Total error:	< 3%
Overload range:	2 times measuring range, final value (FS)
Bursting pressure:	3 times measuring range, final value (FS)
Insulating resistance:	≥100 M0hm, at 20°C (500 V DC)
Protection class:	III (according to EN 60730)
Protection type:	IP 65 (according to EN 60529)
Standards:	CE conformity,
	electromagnetic compatibility
	according to EN 61 326 + A1 + A2,
	EMC directive 2004 / 108 / EC





PREMASGARD® SHD-U, including DIN plug connector

Type/WG1	Measuring Range	Output
SHD-U 1	O…1bar	0-10V
SHD-U 2.5	O2.5bar	0-10V
SHD-U 6	O6bar	0-10V
SHD-U 10	O10bar	0-10V
SHD-U 16	O16bar	0-10V
SHD-U 25	O25bar	0-10V
SHD-U 40	O40bar	0-10V

PREMASGARD® SHD-I, including DIN plug connector

Type/WG1 Measuring Range Output
SHD-I1 01.0 bar 420 mA
SHD-I 2.5 02.5 bar 420 mA
SHD-I6 06.0 bar 420 mA
SHD-I 10 010 bar 420 mA
SHD-I 16 016 bar 420 mA
SHD-I 25 025 bar 420 mA
SHD-I 40 040 bar 420 mA