

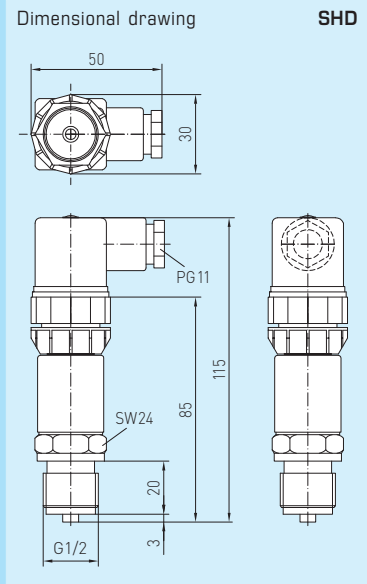
Pressure measuring transducers, incl. DIN receptacle, with active output

The pressure measuring transducer **PREMASGARD® SHD** measures relative pressures in the bar range. It converts the measurand pressure into standard signals of 0-10V or 4...20mA. Process connection is G 1/2" straight external pipe thread. 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 pressure measuring cell is gasketless welded together with the pressure pick-up.

SHD

TECHNICAL DATA:

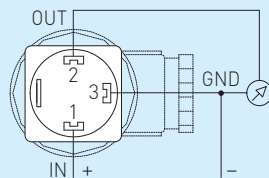
- Power supply:24V AC / DC for output 0 -10 V
7 -33V DC for output 4 ...20mA
- Measuring ranges:..... see table
(other ranges upon request)
- Output signal:.....0-10V, 3-wire, (working resistance > 10kOhm) or
4...20mA, 2-wire, (working resistance < (UB (V)-7V) / 0.02A ;
R_L depending on working resistance
- Electrical connection:.....plug connector DIN EN 175301-803-A
- Pressure connection:.....G 1/2" sealing at the back,
and manometer (combined) with profile gasket
FPM, special WW G 1/4" DIN 3852
- Type of pressure:.....relative
- Measuring principle:.....**steel measuring cell**
- Temperature of medium:.....-40...+135 °C
- Mounting:.....directly on pressure line
- Enclosure:.....stainless steel 1.4305
- Connecting head:.....plastic, approx. 98x50x34 mm
- Medium contacting parts:.....stainless steel 1.4305
- Response time:.....2 ms (1 ms typical)
- Characteristic line:.....± 0.3%
- Overload range:.....< 6 bar: 5 x of final value
> 6 bar: 3 x of final value (max. 1500 bar)
- Bursting pressure:.....< 6 bar: 10 x of final value
> 6 bar: 6 x of final value (max. 2500 bar)
- Protection class:.....III (according to EN 60730)
- Protection type:.....IP 65 (according to EN 60529)
- Standards:.....CE conformity,
electromagnetic compatibility
according to EN 61326,
EMC directive 2004 / 108 / EC
- ACCESSORIES:.....incl. receptacle DIN EN 175301-803-A



Connecting diagram

SHD-U

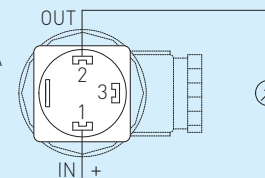
- 2 Output pressure 0-10V
- 3 GND
- 1 Supply voltage UB+ 24V AC/DC



Connecting diagram

SHD-I

- 2 Output pressure 4...20mA
- 3 Free
- 1 Supply voltage UB+ 24V DC



PREMASGARD® SHD-U

incl. DIN receptacle

Type / WG1 / 01	Measuring Range	Item No.	Price
SHD-U		U-variant	
SHD-U 1	0 ...1 bar	1301-2111-0520-220	177,38 €
SHD-U 2,5	0...2.5 bar	1301-2111-0530-220	177,38 €
SHD-U 6	0 ... 6 bar	1301-2111-0550-220	128,42 €
SHD-U 10	0 ...10 bar	1301-2111-0560-220	128,42 €
SHD-U 16	0 ...16 bar	1301-2111-0570-220	128,42 €
SHD-U 25	0 ... 25 bar	1301-2111-0580-220	177,38 €
SHD-U 40	0 ... 40 bar	1301-2111-0590-220	177,38 €

PREMASGARD® SHD-I

incl. DIN receptacle

Type / WG1 / 01	Measuring Range	Item No.	Price
SHD-I		I-variant	
SHD-I 1	0 ...1 bar	1301-2112-0520-120	177,38 €
SHD-I 2,5	0 ... 2.5 bar	1301-2112-0530-120	177,38 €
SHD-I 6	0 ... 6 bar	1301-2112-0550-120	128,42 €
SHD-I 10	0 ...10 bar	1301-2112-0560-120	128,42 €
SHD-I 16	0 ...16 bar	1301-2112-0570-120	128,42 €
SHD-I 25	0 ... 25 bar	1301-2112-0580-120	177,38 €
SHD-I 40	0 ... 40 bar	1301-2112-0590-120	177,38 €



Differential pressure transmitters, including mounting angle with active output

The pressure sensor / differential pressure sensor **PREMASGARD® SHD-652** is used for pressure measurement in gaseous and liquid media. It converts the measurand into standard signals of 0 -10 V. Process connection is 2 x G 1/2" straight internal pipe thread. PREMASGARD® SHD-652 differential pressure transmitters are applied in piping and hydraulic systems, in mechanical and plant engineering as well as in building automation. **Not applicable for ammonia and Freon!**

SHD652

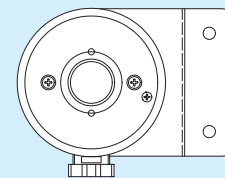
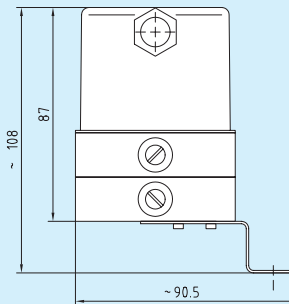
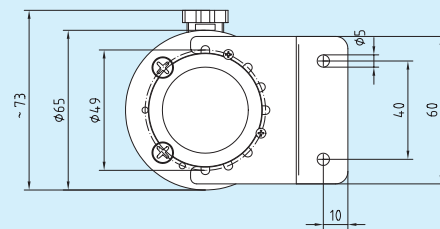


TECHNICAL DATA:

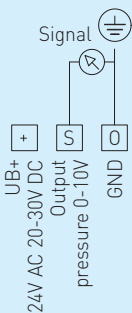
- Power supply: 24 V AC (+15% / -10%)
20 - 30 V DC (optional)
- Measuring ranges: see table
- Output signal: 0 -10 V, 3-wire connection
- Electrical connection: 0.25 - 1.5 mm²
- Pressure connection: G 1/2" straight internal pipe thread
- Type of pressure: differential pressure
- Measuring principle: Hall sensor
- Medium: liquid or gaseous
- Temperature of medium: -10...+80 °C
- Ambient temperature: -25...+60 °C
- Mounting: installation arbitrary, membrane position vertical,
pressure connection downward
- Enclosure: anodised aluminium
- Dimensions: 73 x 87 x 65 mm
- Connecting head: plastic, PG 9
- Medium contacting parts: aluminium, membrane NBR
(incomplete, see datasheet)
- Load changes: < 10 Hz
- Response time: < 5 ms
- Class: linearity ± 1.5%
hysteresis ± 1.5%
- Total error: < 3%
- Overload range: see table
- Bursting pressure: 30 bar
- Insulating resistance: ≥ 100 MOhm, at +20 °C (500 V DC)
- Protection class: III (according to EN 60730)
- Protection type: IP 65 (according to EN 60529) with cover mounted
- Standards: CE conformity, electromagnetic compatibility according
to EN 61326, EMC directive 2004 / 108 / EC

Dimensional drawing

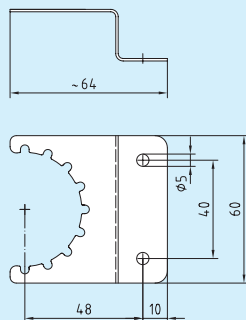
SHD 652



Connecting diagram SHD 652



Dimensional drawing SHD 652 Mounting angle



PREMASGARD® SHD 652
including mounting angle

Type /WG1 / O2	Measuring Range	Max. Operating Pressure	Output	Item No.	Price
SHD 652					U-variant
SHD 652-90011	5 kPa (0...50 mbar)	10 bar	0-10 V	1301-4111-0600-001	503,17 €
SHD 652-91011	10 kPa (0...100 mbar)	10 bar	0-10 V	1301-4111-0610-001	503,17 €
SHD 652-92011	20 kPa (0...200 mbar)	10 bar	0-10 V	1301-4111-0620-001	503,17 €
SHD 652-93011	50 kPa (0...500 mbar)	20 bar	0-10 V	1301-4111-0630-230	503,17 €
SHD 652-94011	100 kPa (0...1000 mbar)	20 bar	0-10 V	1301-4111-0640-230	503,17 €



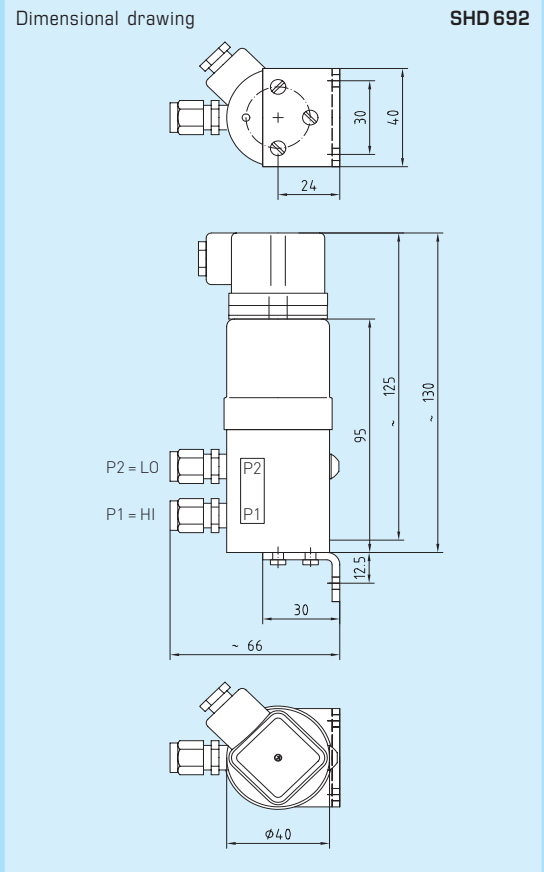
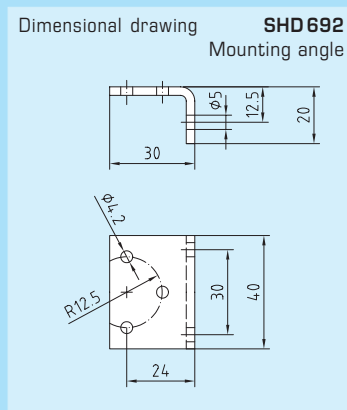
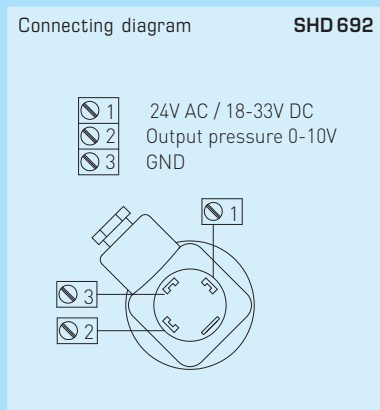
The pressure sensor / differential pressure sensor **PREMASGARD® SHD-692** is used for pressure measurement in gaseous and liquid media. It converts the measurand into standard signals of 0-10V. Process connection is 2 x G 1/8" - 27 NPT internal thread. SHD-692 differential pressure transmitters are used in piping and hydraulic systems, in mechanical and plant engineering as well as in building automation.

Not applicable for ammonia and Freon!

TECHNICAL DATA:

- Power supply: 24 V AC (+15% / -10%)
18 - 33 V DC
- Measuring ranges: see table
- Output signal: 0-10 V, 3-wire connection
- Electrical connection: 0.25 - 1.5 mm², DIN EN 175301-803-A
- Pressure connection: screw pipe connection for 6 mm pipe
(G 1/8" - 27 NPT internal thread)
- Type of pressure: differential pressure
- Measuring principle: ceramic measuring cell
- Medium: liquid or gaseous
- Temperature of medium: -15...+80 °C
- Mounting: installation arbitrary
- Enclosure: stainless steel 1.4305
- Connecting head: angle plug connector DIN EN 175301-803-A
- Medium contacting parts: INOX 1.4305, ceramics, sealing material EPDM
- Response time: < 5 ms
- Class: 0.5%
- Total error: < 1.3%
- Overload range: see table
- System pressure: max. 25 bar (P1 + P2)
- Bursting pressure: 1.5x system pressure
- Insulating resistance: ≥ 100 MOhm, at +20 °C (500 V DC)
- Protection class: III (according to EN 60 730)
- Protection type: IP 65 (according to EN 60 529)
with receptacle mounted
- Standards: CE conformity, electromagnetic compatibility
according to EN 61 326,
EMC directive 2004 / 108 / EC

SHD 692



PREMASGARD® SHD 692
including mounting angle

Type / WG1 / 02	Measuring Range	(Max. One-Side Overload)	Output	Item No.	Price
SHD 692					U-variant
SHD 692-900	0 ... 0.1 bar	(0.6 bar)	0-10 V	1301-4121-0500-000	503,17 €
SHD 692-907	0 ... 0.5 bar	(3 bar)	0-10 V	1301-4121-0510-000	503,17 €
SHD 692-912	0 ... 1 bar	(5 bar)	0-10 V	1301-4121-0520-000	503,17 €
SHD 692-916	0 ... 2.5 bar	(12 bar)	0-10 V	1301-4121-0530-000	503,17 €
SHD 692-918	0 ... 4 bar	(12 bar)	0-10 V	1301-4121-0540-000	503,17 €