

Technical data

Any measurement range $2 \div 20$ m H₂O (we recommend the standard ranges: 2,5, 4, 6, 10 m H₂O)

	Measuring Range		
	2,5 m H ₂ O	4 m H ₂ O	0...10 m H ₂ O \div 20 m H ₂ O
Overpressure Limit (repeatable – without hysteresis)	20 × range	20 × range	10 × range
Accuracy % FSO acc. to IEC 60770	1%	1%	0,5%
Accuracy % FSO acc. to BFSL	0,75%	0.5%	0,25%
Thermal error of zero	Typical 0,4% / 10°C max 0,6% / 10°C		Typical 0,2% / 10°C max 0,3% / 10°C
Thermal error of span	Typical 0,3% / 10°C max 0,4% / 10°C		Typical 0,2% / 10°C max 0,3% / 10°C

Hysteresis, repeatability	0,05%
Thermal compensation range	0 ÷ 40°C – standard -10 ÷ 70°C – special version
Medium temperature range	-25 ÷ 40°C - standard 0 ÷ 75°C – ETFE and PTFE version

CAUTION: The medium must not be allowed to freeze in the immediate vicinity of the probe

Electrical parameters

Output signal $4 \div 20$ mA, two wire transmission
Special version: $0 \div 10$ V three wire transmission (not applicable to Ex)

Load resistance (for current output) $R [\Omega] \leq \frac{U_{sup} [V] - 8V}{0,02 A}$

Load resistance (for supply output) $R \geq 20k\Omega$

Power supply $8 \div 36$ VDC (Ex: 9...28 VDC)
TR version: $10,5 \div 36$ VDC (Ex: 10,5...28 VDC)
 $13 \div 30$ VDC (for $0 \div 10$ V output)

Error due to supply voltage changes variation 0,005% / V

Degree of protection IP-68


Material of casing and diaphragm

SG-25S (casing SS316L, diaphragm SS316L /option Hastelloy C/)

SG-25C (casing SS316L, diaphragm SS316L)

Cable shielding PU, ETFE, PTFE

Ordering procedure

Model	Code	Description
SGE-25C SGE-25S		Level probe
Versions, certificates	/Exia..... /MR..... /-10+70°..... /TR.....	 II 1G Ex ia IIC T4/T5/T6 Ga II 1G Ex ia IIB T4/T5/T6 Ga (for probe with cable in PTFE shield) I M1 Ex ia I Ma Marine certification (DNV), only with ETFE cable Extended thermal compensation range Response time <30ms (only for 4...20mA output)
Measuring set range	/...+... [required units]	Calibrated range in relation to 4mA and 20mA (or 0V and 10V) output
Output signal	/4...20mA..... /0...10V.....	4...20mA / power supply: 8...36VDC (Exia 9...28VDC, TR 10,5...36VDC) 0...10V / power supply 13...30VDC
Type of cable	/PU..... /ETFE..... /PU + PTFE..... /ETFE + PTFE.....	Polyurethane cable (medium temp. up to 40°C) ETFE cable (medium temp. up to 75°C) Polyurethane cable with PTFE shielding (medium temp. up to 75°C) ETFE cable with PTFE shielding (medium temp. up to 75°C)
Cable length	/L=...m.....	Cable length (standard: 5m, 10m, 12m, 15m, 20m, a multiple of 5m, other length on request)
Accessories	/SG..... /PP.....	Cable hanger Junction box