Main features

- Measuring ranges from 1 mWC to 250 mWC
- Explosion-proof certificate fozone 0
 II 1G Ex ia IIB T4
- I Explosion-proof certificate fozone 1
 II 2G Ex ia IIC T4
- Output signal 4...20 mA
- I Protection class IP68

Applications

- Filling level measurement in tanks, vessels, water systems
- Application in environments that require ATEX-approved devices

Description

The explosion-proof filling level or point level sensor has excellent properties, is hermetically tight and very robust in its stainless steel housing. Appropriate protective circuits guarantee inverse-polarity protection and overvoltage resistance.

The probe is of long-term stability and simple to operate.

Options

- with steel or plastic cap
- special coating for higher media resistance

zone 0 An area where an explosive atmosphere of a mix of air and combustible gases, vapours or sprays is permanently, over long periods or frequently prevails.

zone 1 An area where an explosive atmosphere of a mix of combustible materials in the form of gas, vapour or spray with air occurs occasionally in normal operation.

Safety Note:

When fitting, commissioning and operating this pressure transmitter, please observe relevant national safety regulations by all means.

Product line								
DS4	Electronic Pressure Switch	SMC	Pressure Transmitter with CANopen Interface					
DPSX9I	Intrinsically Safe Electronic Pressure Switch for Current	SME	Pressure Transmitter in Miniature Design					
DPSX9U	Intrinsically Safe Electronic Pressure Switch for Voltage	SMF	Pressure Transmitter with Flush Diaphragm					
PS1	Level Sensor	SMH	High Pressure Transmitter					
PSX2	Intrinsically Safe Level Sensor	SML	Pressure Transmitter for Industrial Application					
SHP	High Precision Pressure Transmitter	SMO	Pressure Transmitter in Mobile Hydraulics					
SIS	Low Pressure Transmitter in Short and Compact Design	SMS	OEM Pressure Transmitter for Hydraulics and Pneumatics					
SIL	Low Pressure Transmitter for Industrial Application	SMX/SMX2	Intrinsically Safe Pressure Transmitter for Industrial Application					
SKE	High Temperature Pressure Transmitter with Detached Electronics	TPS	Multi-Function Transmitter for Pressure and Temperature					
SKL	High Temperature Pressure Transmitter with Cooling Fins							

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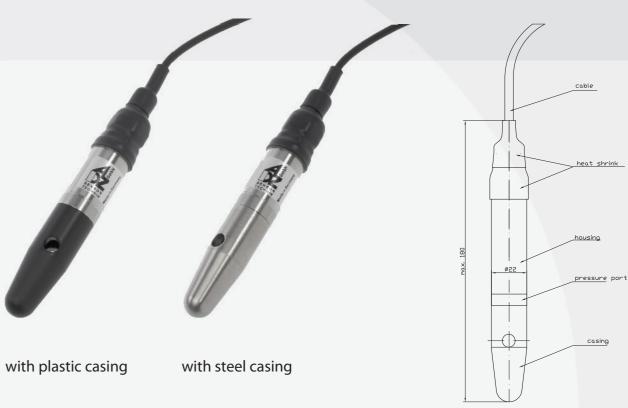




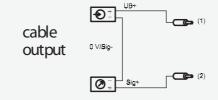


Specification											
PRESSURE RANGE											
Measuring range* silicon tec	hnology	p [bar]**	0,10	0,25	0,50						
Overload pressure			0,3	0,5	1,0						
Burst pressure		p [bar]** p [bar]**	0,6	1,0	1,5						
Measuring range* stainless s	teel dianhragm		1,0	1,6	2,0	2,5	4,0	6,0			
Overload pressure	teer diaprilagin	p [bar]**	6	6	6	6	10	20			
Burst pressure		p [bar]**	9	9	9	9	15	30			
Measuring range* stainless s	tool diaphragm		10	16	20	25	13	30			
Overload pressure	teer diaprilagiti	p [bar]**	20	40	40	100					
·		p [bar]**	30	60	60	150	** 1 box is a	equivalent to 10 mMC			
Burst pressure		signal	30	00			** 1 bar is equivalent to ~ 10 mWC				
	ELECTRICAL PARAMETER		(2 :)		$U_s [V_{DC}]$	$R_{L}[k\Omega]$	RA [Ω]	./!! 1010 / 002 4			
, ,		420 mA	(2-wire)		2027			< (U _s - 16V) / 0,02 A			
maximum acceptable burden	,,						min 100 oh	m			
Response time * (10-90%)	t [ms]	< 1	740								
Withstand voltage	U [V _{DC}]	350	option 710								
			for pressure ranges of 1 bar to 25 bar			for pressure ranges of 0,1 bar to 0,5 bar					
Accuracy @ RT	curacy @ RT % of the range £			£ 0,50 option £ 0,25			£ 1,00 option £ 0,5				
	BFSL	£ 0,125				£ 0,25					
Non-linearity	% of the range					£ 0,15					
Repeatability % of the range		£ 0,10				£ 0,10					
Stability/year % of the range		£ 0,10				£ 0,10					
ACCEPTABLE TEMPERATURE	ACCEPTABLE TEMPERATURE RANGES		zone 0			zone 1					
Measuring medium	Measuring medium T [°C]		-2060			-40100					
Ambience	Ambience T [°C]		-2060			-4085					
Storage T [°C]		-40120				-40125					
Compensated range* T [°C]		-2060				-2085					
Temperature coefficient within	n the compensa	ated range									
Mean TC offset	Mean TC offset % of the range		£ 0,15 / 10K			£ 0,15 / 10K					
Mean TC range	Mean TC range $\%$ of the range £ 0,15 / 10		<			£ 0,15 / 10K					
Total error % of the range		-20°C 1,00%			-40°C 1,00%						
	% of the range	60°C 1,00%				85°C 1,00%					
DIRECTIVE ATEX		zone 0				zone 1					
Type of ignition protection	Type of ignition protection		II 1G Ex ia IIB T4 (cable lenght max 30 m)			II 2G Ex ia I	IC T4 (cable	lenght max 30 m)			
Underlying standards		EN 60079-0, EN 60079-11, EN 60079-26,			9-26,	EN 60079-0), EN 60079-	11, EN 60079-26,			
		EN60079-14				EN60079-14					
Maximum connected power	27 V, 125 mA, 85 W				27 V, 125 mA, 85 W						
Temperature class		T4 (Ambience -20+60° C)				T4 (Ambience -40+85° C)					
MECHANICAL PARAMETER											
Parts in contact with the measuring medi		stainless steel for pressu			for pressure	re ranges of 1 bar to 25 bar					
Parts in contact with the measuring mediun						re ranges of 0,1 bar to 0,5 bar					
Housing			stainless steel								
Casing			plastic / sta	inless steel							
Cable		depending on media (max. tensile strenght 40 N)									
Shock resistance g			1000 acc. to IEC 68-2-32								
Vibration resistance g			20 acc. to IEC 68-2-6 and IEC 68-2-36								
Mass with plastic casing m [g]			150 plus cable								
Mass with steel casing m [g]			240 plus cable								
Mass cable m [g]			20 per m								
CE - conformity		EC Directive 94/9/EG * others upon request					on request				

Configurations -examples-



Electrical Connections*





^{*} Custom-made adjustments acc. to pressure connections and connecting options are possible.