

SITRANS P measuring instruments for pressure

Transmitters for gage, absolute and differential pressure, flow and level

DS III series for absolute pressure (from differential pressure series)

2

Selection and Ordering data	Order code		
<i>Further designs</i>	HART	PA	FF
Add "-Z" to Order No. and specify Order code.			
Pressure transmitter with mounting bracket made of:			
• Steel	A01	✓	✓
• Stainless steel	A02	✓	✓
O-rings for process flanges (instead of FPM (Viton))			
• PTFE (Teflon)	A20	✓	✓
• FEP (with silicone core, approved for food)	A21	✓	✓
• FFPM (Kalrez, compound 4079)	A22	✓	✓
• NBR (Buna N)	A23	✓	✓
Plug			
• Han 7D (metal, gray)	A30	✓	
• Han 8U (instead of Han 7D)	A31	✓	
Sealing screws	A40	✓	✓
¼-18 NPT, with valve in material of process flanges			
Cable sockets for M12 connectors (metal)	A50	✓	✓
Rating plate inscription (instead of German)			
• English	B11	✓	✓
• French	B12	✓	✓
• Spanish	B13	✓	✓
• Italian	B14	✓	✓
English rating plate Pressure units in inH ₂ O or psi	B21	✓	✓
Quality inspection certificate (Factory calibration) to IEC 60770-2¹⁾	C11	✓	✓
Acceptance test certificate²⁾ To EN 10204-3.1	C12	✓	✓
Factory certificate To EN 10204-2.2	C14	✓	✓
"Functional Safety (SIL)" certificate	C20	✓	
"PROFIsafe" certificate and protocol	C21	✓	
Setting of upper limit of output signal to 22.0 mA	D05	✓	
Manufacturer's declaration acc. to NACE (only together with seal diaphragm made of Hastelloy and stainless steel)	D07	✓	✓
Type of protection IP68 (not together with Han 7D/Han 8U plug, cable gland PG 13.5)	D12	✓	✓
Digital indicator alongside the input keys (only together with the devices 7MF4333-...-2-.A.6 or -.A.7-Z, Y21 or Y22 + Y01)	D27	✓	✓
Supplied with oval flange (1 item), PTFE packing and stainless steel screws in thread of process flange	D37 ^{F)}	✓	✓
Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety (EEx ia)")	E01	✓	✓
Use on zone 0 (only together with type of protection "Intrinsic safety (EEx ia)")	E02	✓	✓
Oxygen application (max. 120 bar a (1740 psi a) at 60°C (140 °F) with oxygen measurement and inert liquid)	E10	✓	✓
Explosion-proof "Intrinsic safety" to INMETRO (Brazil) (only for transmitter 7MF4...-.....-B..)	E25	✓	✓

Selection and Ordering data	Order code		
<i>Further designs</i>	HART	PA	FF
Add "-Z" to Order No. and specify Order code.			
Explosion-proof "Intrinsic safety" to NEPSI (China) (only for transmitter 7MF4...-.....-B..)	E55	✓	✓
Explosion protection "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4...-.....-D..)	E56	✓	✓
Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4...-.....-E..)	E57	✓	✓
Interchanging of process connection side	H01	✓	✓
Vent on side for gas measurements	H02	✓	✓
Process flange			
• Hastelloy	K01	✓	✓
• Monel	K02	✓	✓
• Stainless steel with PVDF insert max. PN 10 (MWP 145 psi), max. temperature of medium 90 °C (194 °F)	K04	✓	✓
For ½-14 NPT inner process connection on the side in the middle of the process flange, vent valve not possible			
Additional data			
Add "-Z" to Order No. and specify Order code.			
Measuring range to be set Specify in plain text (max. 5 digits): Y01: up to ... mbar, bar, kPa, MPa, psi	Y01	✓	
Measuring point number (TAG No.) Max. 16 characters, specify in plain text: Y15:	Y15	✓	✓
Measuring point text Max. 27 characters, specify in plain text: Y16:	Y16	✓	✓
Entry of HART address (TAG) Max. 8 characters, specify in plain text: Y17:	Y17	✓	
Setting of pressure indication in pressure units Specify in plain text (standard setting: mA): Y21: mbar, bar, kPa, MPa, psi, ... Note: The following pressure units can be selected: bar, mbar, mm H ₂ O ¹⁾ , inH ₂ O ¹⁾ , ftH ₂ O ¹⁾ , mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM oder %) ref. temperature 20 °C	Y21	✓	✓
Setting of pressure indication in non-pressure units Specify in plain text: Y22: up to l/min, m ³ /h, m, USgpm, ... (specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)	Y22 + Y01	✓	
Preset bus address (possible between 1 and 126) Specify in plain text: Y25:	Y25		✓

Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset
✓ = available

- When the manufacturer's certificate M (calibration certificate) has to be ordered for transmitters with diaphragm seals, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.
- When the acceptance test certificate 3.1 for transmitters with direct-connected diaphragm seals is ordered, this certificate must also be ordered with the corresponding seals.

F) Subject to export regulations AL: 91999, ECCN: N.