

SITRANS P measuring instruments for pressure

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

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

Selection and Ordering data		Order code			Selection and Ordering data		Order code				
Further designs			HART	PA	FF	Additional data			HART	PA	FF
Add "-Z" to Order No. and specify Order code.						Add "-Z" to Order No. and specify Order code.					
Pressure transmitter with mounting bracket made of:						Measuring range to be set		Y01	✓		
• Steel		A01	✓	✓	✓	Specify in plain text (max. 5 digits): Y01: ... up to ... mbar, bar, kPa, MPa, psi					
• Stainless steel		A02	✓	✓	✓	Measuring point number (TAG No.)		Y15	✓	✓	✓
Plug						Max. 16 characters, specify in plain text: Y15:					
• Han 7D (metal, gray)		A30	✓			Measuring point text		Y16	✓	✓	✓
• Han 8U (instead of Han 7D)		A31	✓			Max. 27 characters, specify in plain text: Y16:					
Cable sockets for M12 connectors (metal)		A50	✓	✓	✓	Entry of HART address (TAG)		Y17	✓		
Rating plate inscription (instead of German)						Max. 8 characters, specify in plain text: Y17:					
• English		B11	✓	✓	✓	Setting of pressure indication in pressure units		Y21	✓	✓	✓
• French		B12	✓	✓	✓	Specify in plain text (standard setting: mA): Y21: mbar, bar, kPa, MPa, psi, ...					
• Spanish		B13	✓	✓	✓	Note:					
• Italian		B14	✓	✓	✓	The following pressure units can be selected:					
English rating plate		B21	✓	✓	✓	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					
Pressure units in inH ₂ O or psi						Setting of pressure indication in non-pressure units		Y22 + Y01	✓	✓	✓
Quality inspection certificate (Factory calibration) to IEC 60770-2¹⁾		C11	✓	✓	✓	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)					
Acceptance test certificate²⁾ To EN 10204-3.1		C12	✓	✓	✓	Preset bus address		Y25		✓	
Factory certificate To EN 10204-2.2		C14	✓	✓	✓	(possible between 1 and 126) Specify in plain text: Y25:					
"Functional Safety (SIL)" certificate		C20	✓			Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset					
"PROFIsafe" certificate and protocol		C21		✓		✓ = available					
Setting of upper limit of output signal to 22.0 mA		D05	✓			1) When the manufacture'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 <u>total</u> combination is certified here.					
Manufacturer's declaration acc. to NACE		D07	✓	✓	✓	2) 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.					
Type of protection IP68 (not together with Han 7D / Han 8U plug, Pg 13.5 screwed gland)		D12	✓	✓	✓						
Digital indicator alongside the input keys (only together with the devices 7MF4233-....0-.A.6 or -.A.7-Z, Y21 or Y22 + Y01).		D27	✓	✓	✓						
Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange		D37	✓	✓	✓						
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	✓	✓	✓						
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	✓	✓	✓						