

Selection and Ordering data		Order No.	
Pressure transmitters for differential pressure and flow, SITRANS P500 HART, PN 160 (MAWP 2320 psi)		7 M F 5 4 - 0	
Enclosure	Thread for cable gland		
Die-cast aluminum, dual compartment	M20x1.5	0	
Die-cast aluminum, dual compartment	½-14 NPT	1	
Output			
4 ... 20 mA, HART		3	
Measuring cell filling	Measuring cell cleaning		
Silicone oil	normal	1	
Measuring span			
1.25 ... 250 mbar	(0.5 ... 100.4 inH ₂ O)	D	
6.25 ... 1250 mbar	(2.5 ... 502 inH ₂ O)	E	
Wetted parts materials (stainless steel process flanges)			
Seal diaphragm	Process connection		
Stainless steel 1.4404/316L	Stainless steel 1.4404/316L	A	
Hastelloy C276	Stainless steel 1.4404/316L	B	
Monel 400	Stainless steel 1.4404/316L	C	
Process connection			
Female thread ¼-18 NPT			
- Sealing screw opposite process connection - Mounting thread 7/16 - 20 UNF according to EN 61518 - Mounting thread M10 to DIN 19213 - Vent on side of process flange¹⁾ - Mounting thread 7/16 - 20 UNF according to EN 61518 - Mounting thread M10 to DIN 19213		0	
		1	
		4	
		5	

1) Not in conjunction with remote seals

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<i>Further designs</i> Add "-Z" to Order No. and specify Order Code.	
Attachments	
Mounting bracket made of steel	A01
Mounting bracket made of stainless steel	A02
Display (Standard: no display, cover closed)	
With display and blanking cover	A10
With display and glass cover	A11
Special casing / cover version	
Two coats of lacquer on casing, cover (PU on epoxy)	A20
Electrical connection and cable entry (Standard: no cable gland, only dust protection caps)	
Cable gland made of plastic (IP66/68) ⁴⁾	A50
Cable glands made of metal (IP66/68)	A51
Cable glands made of stainless steel (IP66/68)	A52
M12 connectors without cable socket (IP66/67) ⁴⁾	A60
M12 connectors complete with cable socket (IP66/67) ⁴⁾	A61
Han 7D connectors, plastic, straight (with cable socket) (IP65) ⁴⁾	A71
Han 7D connectors, plastic, angled (with cable socket) (IP65) ⁴⁾	A72
Han 7D connectors, metal enclosure, straight (with cable socket) (IP65) ⁴⁾	A73
Han 7D connectors, metal enclosure, angled (with cable socket) (IP65) ⁴⁾	A74
Han 8D connectors, plastic, straight (with cable socket) (IP65) ⁴⁾⁸⁾	A75
Han 8D connectors, plastic, angled (with cable socket) (IP65) ⁴⁾⁸⁾	A76
Han 8D connectors, metal enclosure, straight (with cable socket) (IP65) ⁴⁾⁸⁾	A77
Han 8D connectors, metal enclosure, angled (with cable socket) (IP65) ⁴⁾⁸⁾	A78
PG 13.5 adapters ⁴⁾	A82
Language for labels, leporellos, menu language default ⁹⁾ (instead of English as standard)	
German	B10
French	B12
Spanish	B13
Italian	B14
Chinese	B15
Russian	B16
Japanese	B17
English with units psi/inH ₂ O/°F	B21
Special version: Supplementary menu languages (Standard: English, German, French, Spanish, Italian)	
Asia language package (in addition: Chinese, Japanese, Russian)	B80
Certificates (available online for downloading) ¹⁾	
Quality inspection certificate (Five-step factory calibration according to IEC 60770-2 ²⁾)	C11
Acceptance test certificate according to EN 10204-3.1 ³⁾	C12

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Degree of protection approvals: Ex ia/ib (intrinsic safety)	
Ex ia/ib protection (ATEX) (T4)	E00
Ex IS protection (FM) (T4)	E01
Ex IS protection (cCSA _{US}) (T4)	E02
Ex ia/ib protection (NEPSI) (T4)	E06
Degree of protection approvals: Ex d (flameproof)	
Ex d explosion-proof (ATEX)(T4/T6)	E20
Ex XP explosion-proof and DIP (FM)(T4/T6)	E21
Ex XP explosion-proof and DIP (cCSA _{US})(T4/T6)	E22
Ex d explosion-proof (NEPSI)(T4/T6)	E26
Degree of protection approvals: n/NI	
Zone 2 (nA, nL, ic) (ATEX) (T4/T6)	E40
Div2 NI, Div2 NI-field wiring (FM) (T4/T6)	E41
Zone 2 (nA, nL), Div2 NI (cCSA _{US}) (T4/T6)	E42
Zone 2 (nA, nL) (NEPSI) (T4/T6)	E46
Degree of protection approvals: Dust Zone 20/21/22	
Use in Zone 21/22 (Ex tD) (ATEX)	E60
Use in Zone 20/21/22 (Ex iaD) (ATEX)	E61
Use in Zone 21/22 (Ex DIP) (NEPSI)	E66
Degree of protection approvals: Combinations	
IS protection and XP and DIP (FM)	E71
IS protection and XP and DIP (cCSA _{US})	E72
IS protection and XP and DIP (FM/cCSA _{US})	E73
Supplementary approvals/degree of protection	
Dual Seal approval ⁵⁾	E85
Special process connection versions (diff. pressure)	
Side vents for gas measurements ⁷⁾	L32
Swap process connection: high-pressure side at front	L33
Process flanges, O-rings, special material Standard: Viton (FKM (FPM))	
Process connection sealing rings made of PTFE (Teflon), virginal	L60
Process connection sealing rings made of PTFE (Teflon), glass fiber-reinforced	L61
Process connection sealing rings made of FFPM (Kalrez)	L62
Process connection sealing rings made of NBR	L63
Process connection sealing rings made of graphite	L64
Drain/Vent valve (1 set = 2 units)	
2 ventilation valves ¼- 18 NPT, in material of process flanges)	L80
Remote seals	
Transmitters with connection of remote seal ⁶⁾ (For premounted valve manifolds see page 1/194)	V00

1) Enclosed in print or as CD: see page 1/192.

2) When also ordering the quality inspection certificate (factory calibration) according to IEC 60770-2 for transmitters with mounted diaphragm seals: Order this certificate only together with the remote seals. The measuring accuracy of the total combination is certified here.

3) When also ordering the acceptance test certificate according to EN 10204-3.1 for transmitters with mounted diaphragm seals: Order this certificate as well in addition to the respective remote seals.

4) Not together with types of protection "Explosion-proof", "Ex nA" and "Intrinsic safety and explosion-proof"

5) Only in conjunction with FM and/or cCSA_{US}

6) Please select a remote seal separately. Also refer to the information under 2). Remote seals see page 2/197.

7) Only in conjunction with process connection "Vent on side".

8) The Han 8D plug is identical with the former Han 8U version.

9) For option B15, B16 and B17 the menu language default is english. Otherwise the Option B80 (Asia language package) is necessary.

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Additional data Please add "-Z" to Order No. and specify Order code(s) and plain text.	
Measuring range to be set Specify in plain text: - In the case of linear characteristic curve (max. 5 characters): Y01: ... up to ... mbar, bar, kPa, MPa, psi - In the case of square rooted characteristic (max. 5 characters): Y02: ... up to ... mbar, bar, kPa, MPa, psi	Y01 Y02
Measuring point number and measuring point identifier (only standard ASCII character set) Specify in plain text:	
Measuring point number (TAG No.), max. 16 characters Y15:	Y15
Measuring point text (max. 27 char.) Y16:	Y16
Entry of HART address (TAG), max. 32 characters Y17:	Y17
Setting of pressure indication in pressure units Specify in plain text (standard setting: mbar) Y21: bar, kPa, MPa, psi, ... Note: The following pressure units are selectable: bar, mbar, mm H ₂ O*), in H ₂ O*), ftH ₂ O*), mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM, % or mA *) Reference 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 or Y02
Customer-specific settings Damping setting (range: 0 ... 100 s) (Standard setting: 2 s)	Y30