

Selection and Ordering data

Order No.

Order code

Pressure transmitters for level, SITRANS P500 HART

D) 7 M F 5 6 - - 0 - - - - -

Enclosure

Die-cast aluminum, dual compartment
Die-cast aluminum, dual compartment

Thread for cable gland

M20x1.5
½-14 NPT

0
1

Output

4 ... 20 mA, HART

3

Measuring cell filling

Silicone oil

Measuring cell cleaning

normal

1

Measuring span (min. ... max.)

1.25 ... 250 mbar (0.5 ... 100.4 inH₂O)
6.25 ... 1250 mbar (2.5 ... 502 inH₂O)

D
E

Wetted parts of the low-pressure side

(stainless steel process flanges)

Seal diaphragm

Process connection

stainless steel
Hastelloy
Monel

stainless steel
stainless steel
stainless steel

A
B
C

Process connection of low-pressure side

Female thread ¼-18 NPT

- Sealing screw opposite process connection
 - Mounting thread 7/16 - 20 UNF according to IEC 61518
 - Mounting thread M10 to DIN 19213
- Vent on side of process flange
 - Mounting thread 7/16 - 20 UNF according to IEC 61518
 - Mounting thread M10 to DIN 19213

0
1

4
5

Wetted parts materials (high-pressure side)

Stainless steel/316L
Hastelloy C276
Monel
Tantalum
PFA coated on steel/316L
PTFE on stainless steel/316L (not in combination with an extension)
Other version
Add order code and plain text:
Material: ... ; Extension length: ...

0
1
2
3
4
6 A
9 Y

N 1 Y

Process connection on high-pressure side: Extension length

None
50 mm (1.97 inch)
100 mm (3.94 inch)
150 mm (5.90 inch)
200 mm (7.87 inch)
Other version: See option "9" for "Wetted parts materials"

A
B
C
D
E

Process connection on high-pressure side: Nominal diameter/Nominal pressure

DN 50, PN 40⁶⁾
DN 80, PN 40
DN 100, PN 16
DN 100, PN 40
2", class 150⁶⁾
2", class 300⁶⁾
3", class 150
3", class 300
4", class 150
4", class 300
Other version, add
Order Code and plain text:
Nominal diameter: ... ; Nominal pressure: ...

B
D
G
H
L
M
Q
R
T
U
Z

Q 1 Y

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Process connection on high-pressure side: Filling liquid

Silicone oil M5

0

Silicone oil M50

1

High-temperature oil

2

Halocarbon (for oxygen measurement)

3

FDA compliant oil

4

Glycerin/water

5

Other version, add

9

Order Code and plain text:

R 1 Y

Filling liquid: ...

D) Subject to export regulations AL: N, ECCN: EAR99H.

Selection and Ordering data	Order code
Further designs Add "-Z" to Order No. and specify Order Code.	
Display (Standard: no display, cover closed)	
With display and blanking cover	A10
With display and glass cover	A11
Special version: cover/casing	
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, 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⁾⁷⁾	A75
Han 8D connectors, plastic, angled (with cable socket) (IP65) ⁴⁾⁷⁾	A76
Han 8D connectors, metal enclosure, straight (with cable socket) (IP65) ⁴⁾⁷⁾	A77
Han 8D connectors, metal enclosure, angled (with cable socket) (IP65) ⁴⁾⁷⁾	A78
PG 13.5 adapters ⁴⁾	A82
Language for labels, leprellos and menu language default⁸⁾ (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	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
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 (C _{CSA} US) (T4)	E02
Ex ia/ib protection (NEPSI) (T4)	E06

Selection and Ordering data	Order code
Further designs Add "-Z" to Order No. and specify Order Code.	
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 (C _{CSA} 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 (C _{CSA} US) (T4/T6)	E42
Zone 2 (nA, nL) (NEPSI) (T4/T6)	E46
Degree of protection approvals: 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 (Ex DIP) (ATEX)	E66
Degree of protection approvals: Combinations	
IS protection and XP and DIP (FM)	E71
IS protection and XP and DIP (C _{CSA} US)	E72
IS protection and XP and DIP (FM/C _{CSA} US)	E73
Supplementary approvals / degree of protection	
Dual Seal approval ⁵⁾	E85
Special process connection versions (diff. pressure)	
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 FFKM (Kalrez)	L62
Process connection sealing rings made of NBR	L63
Drain/Vent valve (1 set = 2 units)	
2 ventilation valves ¼- 18 NPT, in material of process flange)	L80
Vacuum-proof design	
Vacuum service	V04
Spark arrester For mounting on zone 0 (including documentation)	V05

- 1) Enclosed in print or as CD: see page 2/186.
- 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 C_{CSA}US
- 6) Not recommended for Measuring span "D"
- 7) The Han 8D plug is identical with the former Han 8U version.
- 8) For option B15, B16 and B17 the menu language default is english. Otherwise the Option B80 (Asia language package) is necessary.

Selection and ordering data

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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:

Linear characteristic curve (max. 5 characters):

Y01: ... up to ... mbar, kPa, MPa, psi

Y01**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****Y21**

Specify in plain text (standard setting: mbar)

Y21: bar, kPa, MPa, psi, ...

Note: The following pressure units are selectable:

bar, mbar, mm H₂O*, in H₂O*, ftH₂O*, mmHG, inHG, psi, Pa, kPa, MPa, g/cm², kg/cm², Torr, ATM, % or mA

*) Reference temperature 20 °C

Setting of pressure indication in non-pressure units**Y22 +**

Specify in plain text:

Y22: ... up to ... l/min, m³/h, m, USgpm, ...

(specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)

Y01**Customer-specific settings**

Damping setting (range: 0 ... 100 s)

(Standard setting: 2 s)

Y30