Selection and Ordering data		Order No.
Pressure transmitters for differential pressure and flow, SITRANS P500 HART, PN 160 (MAWP 2320 psi)		D) **7MF54■■ - ■■■■■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	stainless steel	A
Hastelloy	stainless steel	B
Monel	stainless steel	C

Process connection

Female thread ¼-18 NPT

• Sealing screw opposite process connection	
- Mounting thread 7/16 - 20 UNF according to EN 61518	0
- Mounting thread M10 to DIN 19213	1
• Vent on side of process flange[1]	
- Mounting thread 7/16 - 20 UNF according to EN 61518	4
- Mounting thread M10 to DIN 19213	5

[1] Not in conjunction with remote seals

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

Selection and Ordering data	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**

Selection and Ordering data	Order code

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**

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: 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 ($_C$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)

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**

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]	**V00**

(For premounted valve manifolds see page 2/188)

[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] Please select a remote seal separately. Also refer to the information under 2).

[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.

Selection and Ordering data	Order code
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
	Y01

• in the case of square rooted characteristic
  (max. 5 characters):
  Y02: ... up to ... mbar, bar, kPa, MPa, psi
	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	**Y21**
Specify in plain text (standard setting: mbar) Y21: bar, kPa, MPa, psi, ...	
Note: The following pressure units are selectable: bar, mbar, mm H_2O*), in H_2O*), ftH_2O*), mmHG, inHG, psi, Pa, kPa, MPa, g/cm^2, kg/cm^2, Torr, ATM, % or mA	
*) Reference temperature 20 °C	
Setting of pressure indication in non-pressure units Specify in plain text:	**Y22 +** **Y01 or Y02**
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)	
Customer-specific settings	
Damping setting (range: 0 ... 100 s) (Standard setting: 2 s)	**Y30**