Selection and Orderi	-		Order No.
SITRANS P pressure	transmitters for differen-		7 M F 4 4 3 3 -
tial pressure and flow PN 32/160 (MWP 464/			
Measuring cell filling	Measuring cell cleaning		
Silicone oil	Standard	•	1
Inert liquid <sup>1)</sup>	Grease-free		3
Span			
PN 32 (MWP 464 psi) 1 20 mbar <sup>2)</sup>	(0.4015 0.03 in U.O.)		В
	(0.4015 8.03 inH <sub>2</sub> O)		Р
PN 160 (MWP 2320 ps 1 60 mbar	(0.4015 24.09 inH <sub>2</sub> O)		С
2.5 250 mbar	(1.004 100.4 inH <sub>2</sub> O)		D
6 600 mbar	(2.409 240.9 inH <sub>2</sub> O)		E
16 1600 mbar	(6.424 642.4 inH <sub>2</sub> O)	$\blacktriangleright$	F
50 5000 mbar	(20.08 2008 inH <sub>2</sub> O)	•	G
0.3 30 bar	(4.35 435 psi)	<u> </u>	Н
Wetted parts material			
(stainless steel proces Seal diaphragm	s flanges) Parts of measuring cell		
		_	
Stainless steel Hastelloy	Stainless steel Stainless steel	F)	В
Hastelloy	Hastelloy	г) F)	
Tantalum <sup>3)</sup>	Tantalum	,	E
Monel <sup>3)</sup>	Monel	F)	Н
Gold <sup>3)</sup>	Gold		L
Version for diaphragm	seal 7 0		Y
Process connection	DT with flames and a still		
	PT with flange connection site process connection		
<ul> <li>Mounting thread M</li> </ul>		•	0
- Mounting thread <sup>7</sup> /	<sub>16</sub> -20 UNF to EN 61518		2
<ul> <li>Vent on side of proce</li> </ul>	ess flange <sup>2)</sup>		
- Mounting thread M			4
	<sub>16</sub> -20 UNF to EN 61518		6
Non-wetted parts ma Process flange screws			
Stainless steel	Die-cast aluminium	_	2
Stainless steel	Stainless steel precision	ì	3
	casting <sup>6)</sup>		
<b>Version</b> ● Standard version			
	English label inscriptions		1 2
documentation in 5 la			
Explosion protection			
• Without			Α
<ul> <li>With ATEX, Type of p</li> </ul>			
<ul><li>- "Intrinsic safety (EE</li><li>- "Explosion-proof (E</li></ul>		F)	B D
- "Intrinsic safety and	d explosion-proof	г) F)	
enclosure (EEx ia +	- EEx d)" <sup>8)</sup>	. /	
- "Ex nA/nL (zone 2)"	alaalaa aa C		E
<ul> <li>"Intrinsic safety, exp and dust explosion</li> </ul>	olosion-proof enclosure	F)	R
(EEx ia + EEx d + 2		. ,	
<ul> <li>With FM + CSA, Type</li> </ul>	e of protection:		
<ul> <li>"Intrinsic safety and (is + xp)"<sup>7)</sup></li> </ul>	d explosion-proof	F)	NC
	/ lel le		
Electrical connection • Screwed gland Pg 13			٥
<ul> <li>Screwed gland Pg 1.</li> <li>Screwed gland M20.</li> </ul>			В
<ul> <li>Screwed gland ½-14</li> </ul>	NPT		C
<ul> <li>Han 7D plug (plastic connector 10)</li> </ul>		F)	
<ul> <li>M12 connectors (me</li> </ul>	tai) ' <sup>U)</sup>		F

SITRANS P pressure transmitters for differen tial pressure and flow, Series DS III HART PN 32/160 (MWP 464/2320 psi)	-	7 M F 4 4 3 3 -	
Display			
<ul> <li>without (digital indicator hidden, setting: mA)</li> </ul>	$\blacktriangleright$	1	
With visible digital indication		6	

Order No.

7

> Available ex stock

Power supply units see "SITRANS I power supply units and isolation amplifiers".

Factory-mounting of shut-off valves and valve manifolds see page 2/133.

Included in delivery of the device:

• Brief instructions (Leporello)

Selection and Ordering data

- CD-ROM with detailed documentation
- Sealing plug(s) or sealing screw(s) for the process flanges(s)
- 1) For oxygen application, add Order code E10.

 With customer-specific digital indication (setting as specified, Order code "Y21" or required)

- 2) Not suitable for connection of remote seal. Position of the top vent valve in the process flanges (see dimensional drawing).
- 3) Only together with max. spans 250, 1600, 5000 and 30000 mbar (100.4, 240.9, 2008 inH<sub>2</sub>O and 435 psi)
- 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 total combination is certified here.
- 5) Whe 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.
- 6) Not together with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug".
- 7) Without cable gland, with blanking plug
- 8) With enclosed cable gland EEx ia and blanking plug
- 9) Not together with type of protection "Explosion-proof" and and type of protection "Ex nA".
- 10) Cannot be used together with the following types of protection: "Explosion-proof" and "Intrinsic safety and explosion-proof"
- F) Subject to export regulations AL: 91999, ECCN: N.

Selection and Orde	ring data		Orde	er No	).	
SITRANS P pressur for differential pres PN 32/160 (MWP 46	sure and flow					
DS III PA series (PR	• /		7 M E		34-	
•	•					
DS III FF Series (FO	UNDATION Fieldbus)		/ IVI F		35-	
					-	
Measuring cell filling						
Silicone oil	<b>cleaning</b> Standard		1			
Inert liquid <sup>1)</sup>	Grease-free		3			
Nominal measuring	range		. 🗀 📗			
PN 32 (MWP 464 psi						
20 mbar <sup>2)</sup>	(8.03 inH <sub>2</sub> O)		В			
PN 160 (MWP 2320	osi)					
60 mbar	(24.09 inH <sub>2</sub> O)		С			
250 mbar	(100.4 inH <sub>2</sub> O)		D			
600 mbar	(240.9 inH <sub>2</sub> O)		Е			
1600 mbar	(642.4 inH <sub>2</sub> O)		F			
5 bar	(2008 inH <sub>2</sub> O)		G			
30 bar	(435 psi)		Н			
Wetted parts mater						
(stainless steel proce	ess flanges)					
Seal diaphragm	Parts of measuring cel					
Stainless steel	Stainless steel		A	١		
Hastelloy	Stainless steel	F)	E	3		
Hastelloy	Hastelloy	F)	(	;		
T (3)	Tantalum		E			
Tantalum <sup>3)</sup>						
Monel <sup>2)</sup>	Monel	F)	H			
Monel <sup>2)</sup> Gold <sup>2)</sup>	Monel Gold	F)	L			
Monel <sup>2)</sup>	Monel Gold	F)				
Monel <sup>2)</sup> Gold <sup>2)</sup>	Monel Gold m seal <sup>4) 5)</sup>	F)	L			
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection		L			
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr  Process connection Female thread <sup>1</sup> / <sub>4</sub> -18 • Sealing screw opp	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection		L	,		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213		L			
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw oppion - Mounting thread - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518		L	,		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup>		L	0		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213		L	0		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup>		L	0 2		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread - Wounting on side of - Mounting thread - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518		L	0 2 4		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 naterials		L	0 2 4		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread - Mounting thread	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 materials vs Electronics housing		L	0 2 4 6		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread - Mounting thread - Mon-wetted parts m Process flange screw Stainless steel	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  Interials ws Electronics housing Die-cast aluminium	n	L	0 2 4 6		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread - Mounting thread - Mon-wetted parts m Process flange screw Stainless steel	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 materials vs Electronics housing	n	L	0 2 4 6		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread - Mounting thread Non-wetted parts m Process flange screw Stainless steel Stainless steel	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  naterials ws Electronics housing Die-cast aluminium Stainless steel precision	n	L	0 2 4 6		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread - Mounting thread Non-wetted parts m Process flange screw Stainless steel Stainless steel	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  naterials ws Electronics housing Die-cast aluminium Stainless steel precision	n	L	0 2 4 6	1	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ¼-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread Mon-wetted parts m Process flange screw Stainless steel Stainless steel Version • Standard version • International version	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 materials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions	n n	L	0 2 4 6	1 2	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread Non-wetted parts m Process flange screw Stainless steel Stainless steel Version • Standard version	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 materials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions	n n	L	0 2 4 6		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mon-wetted parts m Process flange screw Stainless steel Stainless steel Version • Standard version • International version documentation in 5 Explosion protection	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  interials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions is languages on CD	n n	L	0 2 4 6		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mon-wetted parts m Process flange screw Stainless steel Stainless steel Version • Standard version • International version documentation in 5 Explosion protection	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  materials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions is languages on CD	n n	L	0 2 4 6		
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread Mon-wetted parts m Process flange screw Stainless steel Stainless steel Stainless steel Version • Standard version • International version documentation in 5 Explosion protectio • Without • With CENELEC, Tyl	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 materials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions of languages on CD  on pe of protection:	n n	L	0 2 4 6	2 A	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread Mon-wetted parts m Process flange screw Stainless steel Stainless steel Stainless steel Version • Standard version • International version documentation in 5 Explosion protectio • Without • With CENELEC, Ty - "Intrinsic safety (E	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 materials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions blanguages on CD  n  pe of protection: Ex ia)"	on Ss,	L	0 2 4 6	2 A B	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread Mon-wetted parts m Process flange screw Stainless steel Stainless steel Stainless steel Version • Standard version • International version documentation in 5 Explosion protectio • Without • With CENELEC, Ty - "Intrinsic safety (E - "Explosion-proof	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 materials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions blanguages on CD  n  pe of protection: EEx ia)" (EEx d)" <sup>6)</sup>	on F)	L	0 2 4 6	A B D	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread Version • Stainless steel Stainless steel Version • Standard version • International version • International version documentation in 5  Explosion protection • With CENELEC, Ty - "Intrinsic safety (E - "Explosion-proof of the standard version of t	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  we Electronics housing Die-cast aluminium Stainless steel precisic casting  n, English label inscriptions is languages on CD  on  pe of protection: EEx ia)" ((EEx d)*6) Ind explosion-proof	on Ss,	L	0 2 4 6	2 A B	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread - Mounting thread Mon-wetted parts m Process flange screw Stainless steel Stainless steel Stainless steel Version • Standard version • International version documentation in 5 Explosion protectio • Without • With CENELEC, Ty - "Intrinsic safety (E - "Explosion-proof - "Intrinsic safety al enclosure (EEx ia	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  materials ws Electronics housing Die-cast aluminium Stainless steel precision casting  n, English label inscriptions alanguages on CD  n  pe of protection: EEx ia)" (EEx d)" <sup>6)</sup> nd explosion-proof a + EEx d)" <sup>7)</sup>	on F)	L	0 2 4 6	A B D P	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of - Mounting thread  Non-wetted parts m Process flange screw Stainless steel Stainless steel Version • Standard version • International version • International version documentation in 5  Explosion protection • With CENELEC, Ty - "Intrinsic safety (E - "Explosion-proof - "Intrinsic safety a - enclosure (EEx ia - "n (Zone 2)" (plan	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  we Electronics housing Die-cast aluminium Stainless steel precisic casting  n, English label inscriptions is languages on CD  on  pe of protection: EEx ia)" ((EEx d)*6) Ind explosion-proof I + EEx d)*7 Ined)	n	L	0 2 4 6	A B D P	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp Mounting thread - Mounting thread • Venting on side of - Mounting thread - Wathout explosion steel  Explosion protection - With CENELEC, Ty - "Intrinsic safety (Explosion-proof - "Intrinsic safety (Explosion-proof - "Intrinsic safety (Explosion	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  Interials ws Electronics housing Die-cast aluminium Stainless steel precision casting  In, English label inscriptions is languages on CD  In  Pee of protection: EEx ia)" ((EEx d)* <sup>6)</sup> In d explosion-proof In HEEX d)* <sup>7)</sup> Ined) In explosion-proof enclosure	on F)	L	0 2 4 6	A B D P	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp Mounting thread - Mounting thread • Venting on side of - Mounting thread - Wathout explosion steel  Explosion protection - With CENELEC, Ty - "Intrinsic safety (Explosion-proof - "Intrinsic safety (Explosion-proof - "Intrinsic safety (Explosion	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  Interials ws Electronics housing Die-cast aluminium Stainless steel precision casting  In, English label inscriptions is languages on CD  In  Pee of protection: EEx ia)" ((EEx d)* <sup>6)</sup> In d explosion-proof In HEEX d)* <sup>7)</sup> Ined) In explosion-proof enclosure	n	L	0 2 4 6	A B D P	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread - Mounting thread • Venting on side of   - Mounting thread - Mounting thread • Mounting thread - Mounting thread - Mounting thread  Non-wetted parts m Process flange screw Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel  Version • Standard version • International version documentation in 5  Explosion protectio • With CENELEC, Ty, - "Intrinsic safety (E - "Explosion-proof   - "Intrinsic safety al enclosure (EEx ia - "n (Zone 2)" (plan - "Intrinsic safety, e and dust explosic EEX d + Zone 1D • With FM + CSA, Ty	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  Interials ws Electronics housing  Die-cast aluminium Stainless steel precision casting  In, English label inscriptions is languages on CD  Interials  Inte	n	L	0 2 4 6	A B D P	
Monel <sup>2)</sup> Gold <sup>2)</sup> Version as diaphragr Process connection Female thread ½-18 • Sealing screw opp - Mounting thread • Venting on side of - Mounting thread • Venting on side of - Mounting thread • Mon-wetted parts m Process flange screw Stainless steel Stainless steel Version • Standard version • International version documentation in 5  Explosion protectic • Without • With CENELEC, Ty - "Intrinsic safety (Explosion-proof of the color of the co	Monel Gold m seal <sup>4) 5)</sup> NPT with flange connection osite process connection M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518 process flanges <sup>2)</sup> M10 to DIN 19213  7/ <sub>16</sub> -20 UNF to EN 61518  Interials ws Electronics housing  Die-cast aluminium Stainless steel precision casting  In, English label inscriptions is languages on CD  Interials  Inte	n	L	0 2 4 6	A B D P	C

Selection and Ordering data	Order No.
SITRANS P pressure transmitters for differential pressure and flow PN 32/160 (MWP 464/2320 psi)	
DS III PA series (PROFIBUS PA)	7 M F 4 4 3 4 -
DS III FF series (FOUNDATION Fieldbus)	7 M F 4 4 3 5 -
Electrical connection / cable entry	
<ul> <li>Screwed gland M20x1.5</li> </ul>	В
<ul> <li>Screwed gland ½-14 NPT</li> </ul>	С
• M12 connectors (metal) <sup>8)</sup>	F
Display	
<ul> <li>Without (digital display hidden)</li> </ul>	1
<ul> <li>With visible digital indication</li> </ul>	6
<ul> <li>With customer-specific digital indication (setting as specified, Order code "Y21" or required)</li> </ul>	7

Included in delivery of the device:

- Brief instructions (Leporello)
- CD-ROM with detailed documentation
- Sealing plug(s) or sealing screw(s) for the process flanges(s)
- 1) For oxygen application, add Order code E10.
- Not suitable for connection of remote seal. Position of the top vent valve in the process flanges (see dimensional drawing).
- Only together with max. spans 250, 1600, 5000 and 30000 mbar (100.4, 240.9, 2008 inH<sub>2</sub>O and 435 psi).
- 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 total combination is certified here.
- 5) Whe 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.
- 6) Without cable gland, with blanking plug.
- 7) With enclosed cable gland EEx ia and blanking plug.
- 8) Cannot be used together with the following types of protection: "Explosion-proof" and "Intrinsic safety and explosion-proof".
- F) Subject to export regulations AL: 91999, ECCN: N.

Selection and Ordering data	Order	code		
Further designs		HART	PA	FF
Add "-Z" to Order No. and specify Order code.				
Pressure transmitter with mounting bracket made of:				
• Steel	A01	✓	1	<b>4</b>
Stainless steel	A02	✓	✓	✓
O-rings for process flanges				
(instead of FPM (Viton))  • PTFE (Teflon)	A20	1	1	1
• FEP (with silicone core, approved for food)	A21	1	1	1
• FFPM (Kalrez, compound 4079)	A22	<b>V</b>	1	<b>V</b>
• NBR (Buna N)	A23	<b>V</b>	<b>~</b>	<b>✓</b>
Plug • Han 7D (metal, gray)	A30	1		
Han 8U (instead of Han 7D)	A31	<b>*</b>		
Sealing screws	A40	1	1	1
1/4-18 NPT, with valve in mat. of process flanges				
Cable sockets for M12 connectors (metal)	A50	✓	✓	✓
Rating plate inscription (instead of German)				
• English	B11	1	<b>√</b>	1
<ul><li>French</li><li>Spanish</li></ul>	B12 B13	<b>v</b>	<b>V</b>	<b>V</b>
• Italian	B14	1	1	<b>✓</b>
English rating plate (calibration certificate)	B21	✓	1	1
Pressure units in inH <sub>2</sub> O or psi				
Manufacturer's test certificate M1)	C11	✓	✓	✓
To DIN 55350, Part 18 and to ISO 8402				
Acceptance test certificate <sup>2)</sup> To EN 10 204-3.1	C12	✓	1	✓
	C14	1	1	1
<b>Factory certificate</b> To EN 10 204-2.2	C14	ľ	·	v
"Functional Safety (SIL)" certificate	C20	✓		
"PROFIsafe" certificate and protocol	C21		1	
Setting of upper limit of output signal to	D05	✓		
22.0 mA				
Manufacturer's declaration acc. to NACE (only together with seal diaphragm made of	D07	<b>V</b>	<b>√</b>	<b>✓</b>
Hastelloy and stainless steel)				
Type of protection IP68	D12	1	1	✓
(not together with 7D/ Han 8U plug, cable gland Pg 13.5)				
Digital indicator alongside the input keys	D27	1	1	1
(only together with the devices 7MF4433-	DZI	Ů	Ť	•
2A.6 orA.7-Z, Y21 or Y22 + Y01)				
Process flange screws made of Monel	D34	✓	✓	✓
(max. nominal pressure PN20)	D37 <sup>F)</sup>	./	./	1
<b>Supplied with oval flange set</b> (2 items), PTFE packings and stainles steel	D37°	•	•	•
screws in thread of process flanges				
Use in or on zone 1D/2D	E01	✓	✓	✓
(only together with type of protection "Intrinsic safety (EEx ia)")				
Use on zone 0	E02	1	1	1
(only together with type of protection	LUZ	ľ	ľ	•
"Intrinsic safety (EEx ia)")				
TÜV approval to AD/TRD	E06	✓		
(only together with type of protection "Intrinsic safety (EEx ia)")				
Overfilling safety device for flammable	E08	1	1	1
and non-flammable liquids				
(max. PN 32 (MVWP 464 psi), basic device with type of protection "Intrinsic safety				
(EEx ia)", to WHG and VbF, not together with measuring cell filling "inert liquid")				
measuring centilling inertiliquid )				

Selection and Ordering data	Order	code					
Further designs Add "-Z" to Order No. and specify Order code.		HART	PA	FF			
Oxygen application (max. 160 bar (2320 psi) with oxygen measurement and inert liquid)	E10	<b>V</b>	<b>V</b>	✓			
Explosion-proof "Intrinsic safety" to INMETRO (Brazil) (only for transmitter 7MF4B)	E25	<b>*</b>	✓	<b>✓</b>			
<b>Explosion-proof "Intrinsic safety" to NEPSI (China)</b> (only for transmitter 7MF4B)	E55	<b>*</b>	<b>√</b>	<b>✓</b>			
Explosion protection "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4D)	E56	<b>*</b>	✓	<b>✓</b>			
<b>Explosion-proof "Zone 2" to NEPSI (China)</b> (only for transmitter 7MF4E)	E57	<b>*</b>	✓	<b>√</b>			
Interchanging of process connection side	H01	✓	1	✓			
Vent on side for gas measurements	H02	✓	1	✓			
Stainless steel process flanges for vertical differential pressure lines (not together with K01, K02 and K04) <sup>3)</sup>	H03	<b>*</b>	✓	<b>✓</b>			
Process flange  • Hastelloy  • Monel  • Stainless steel with PVDF insert max. PN 10 (MWP 145 psi), max. temperature of medium 90 °C (194 °F)	K01 <sup>F)</sup> K02 <sup>F)</sup> K04	* * *	<b>* * *</b>	* * * * *			
For ½-14 NPT inner process connection on the side in the middle of the process flange, vent valve not possible							

<sup>✓ =</sup> available

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 total combination is certified here.
 When the acceptance test certificate 3.1 for transmitters with direct-content of diaphragms seals in preferred this certificate must also be ordered.

Whe 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.

<sup>3)</sup> Not suitable for connection of remote seal

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

Selection and Ordering data	Order	code		
Additional data		HART	PA	FF
Add "-Z" to Order No. and specify Order code.				
Measuring range to be set Specify in plain text:				
<ul> <li>With linear characteristic (max. 5 digits): Y01: up to mbar, bar, kPa, MPa, psi</li> </ul>	Y01	<b>✓</b>		
<ul> <li>With square-rooted characteristic (max. 5 digits):</li> <li>Y01: up to mbar, bar, kPa, MPa, psi</li> </ul>	Y02	<b>✓</b>		
Measuring point number (TAG No.) Max. 16 char., specify in plain text: Y15:	Y15	✓	✓	✓
<b>Measuring point text</b> Max. 27 char., specify in plain text: Y16:	Y16	<b>*</b>	<b>√</b>	<b>✓</b>
Entry of HART address (TAG) Max. 8 char., specify in plain text: Y17:	Y17	<b>✓</b>		
Setting of pressure indicator 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 <sub>2</sub> O <sup>-1</sup> , inH <sub>2</sub> O <sup>-1</sup> , ftH <sub>2</sub> O <sup>-1</sup> , mmHG, inHG, psi, Pa, kPa, MPa, g/cm <sup>2</sup> , kg/cm <sup>2</sup> , Torr, ATM oder % *) ref. temperature 20 °C	Y21	*	<b>✓</b>	<b>✓</b>
Setting of pressure indicator in non-pressure units Specify in plain text: Y22: up to I/min, m³/h, m, USgpm, (specification of measuring range in pressure units "Y01" or "Y02" is essential, unit with max. 5 characters)	Y22 <sup>1)</sup> + Y01 or Y02	1		
Preset bus address Specify in plain text: Y25:	Y25		✓	

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

<sup>✓ =</sup> available

Not together with over-filling safety device for flammable and non-flammable liquids (Order code "E08")

Selection and Orde			Ord	er	Nc	١.	
	e transmitters for differer ow, Series DS III HART psi)	1-	7 M		5	3 3 -	
Measuring cell fillin	g Measuring cell						
•	cleaning						
Silicone oil	Standard		1				
Span							
2.5 250 mbar	(1.004 100.4 inH <sub>2</sub> O)		D				
6 600 mbar	(2.409 240.9 inH <sub>2</sub> O)		Е				
16 1600 mbar	(6.424 642.4 inH <sub>2</sub> O)		F				
50 5000 mbar	(20.08 2008 inH <sub>2</sub> O)		G				
0.3 30 bar	(4.35 435 psi)		Н				
Wetted parts mater							
(stainless steel proce							
Seal diaphragm	Parts of measuring cell						
Stainless steel	Stainless steel	_		۸			
Hastelloy	Stainless steel	Γ\		A B			
Gold <sup>1)</sup>	Gold	F)		D I			
0.0.0				_			
Process connection							
	NPT with flange connection	1					
	osite process connection			١.			
- Mounting thread				1			
	<sup>7</sup> / <sub>16</sub> -20 UNF to EN 61518			3			
<ul> <li>Venting on side of </li> </ul>	process flanges. Position of	f					
the top vent valve i	n the process flanges (see						
	37						
- Mounting thread	7/ <sub>16</sub> -20 UNF to EN 61518			5 7			
Non-wetted parts m							
Process flange screv	vs Electronics housing	_					
Stainless steel	Die-cast aluminium				2		
Stainless steel	Stainless steel precision	n			3		
	casting <sup>2)</sup>						
Version							
<ul> <li>Standard version</li> </ul>						1	
	n, English label inscriptions	8,				2	
documentation in 5	languages on CD						
Explosion protection	n						
<ul> <li>Without</li> </ul>						P	١
<ul> <li>With ATEX, Type of</li> </ul>	protection:						
- "Intrinsic safety (E	EEx ia)"					E	3
- "Explosion-proof	(EEx d)" <sup>3)</sup>	F)					)
- "Intrinsic safety a		F)				F	,
enclosure (EEx ia		. ,					
- "Ex nA/nL (zone 2)						Е	
- "Intrinsic safety, e	explosion-proof enclosure	F)				F	
and dust explosion	on protection (EEx ia + /2D)"4)	.,				ľ	•
• With FM + CSA, Ty							
- "Intrinsic safety a		F)				N	1 C
(is + xp)"3), max f		,					
Electrical connection							
<ul> <li>Screwed gland Pg</li> </ul>							Δ
<ul> <li>Screwed gland Fg</li> <li>Screwed gland M2</li> </ul>							B
							B C
<ul> <li>Screwed gland ½-*</li> </ul>	is because which						D
<ul> <li>Han 7D plug (place)</li> </ul>							
<ul> <li>Han 7D plug (plast connector<sup>5)</sup></li> </ul>	ic nousing) inci. mating						

• M12 connectors (metal)<sup>6)</sup>

Selection and Ordering data	Order No.
SITRANS P pressure transmitters for differential pressure and flow, Series DS III HART PN 420 (MWP 6092 psi)	7 M F 4 5 3 3 -
With out (digital indicator hidden, setting: mA)     With visible digital indication     With customer-specific digital indication (setting as specified, Order code "Y21" or required)	1 6 7

Power supply units see "SITRANS I power supply units and isolation amplifiers".

Scope of delivery: Pressure transmitter as ordered (Instruction Manual is extra ordering item)

- $^{1)}$  Not together with max. span 600 mbar (240.9 inH $_2$ O)  $^{2)}$  Not together with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug".
- 3) Without cable gland, with blanking plug
- 4) With enclosed cable gland EEx ia and blanking plug
- 5) Not together with type of protection "Explosion-proof" and and type of protection "Ex nA".
- 6) Cannot be used together with the following types of protection: "Explosion-proof" and "Intrinsic safety and explosion-proof".
- F) Subject to export regulations AL: 91999, ECCN: N.

SITRANS P pressure	ing data		Orc	ıer	IAC	).	
	e transmitters for differency, Series DS III HART psi)	1-					
DS III PA (PROFIBUS			7 M	F 4	5	3 4	
DS III FF series (FOI	UNDATION Fieldbus)		7 M	F 4	5	3 5	-
•	•		1		ı,	-	
Nominal measuring	range						
250 mbar	(100.4 inH <sub>2</sub> O)		D				
600 mbar	(240.9 inH <sub>2</sub> O)		Е				
1600 mbar	(642.4 inH <sub>2</sub> O)		F				
5 bar	(2008 inH <sub>2</sub> O)		G				
30 bar	(435 psi)		Н				
Wetted parts materia							
(stainless steel proce							
Seal diaphragm	Parts of measuring cel	I					
Stainless steel	Stainless steel			Α			
Hastelloy	Stainless steel	F)		В			
Gold <sup>1)</sup>	Gold			L			
Process connection	1						
Female thread 1/4-18 I	NPT with flange connection	า					
<ul> <li>Sealing screw opportunity</li> </ul>	osite process connection						
- Mounting thread N	M12 to DIN 19213			1			
- Mounting thread 7	7/ <sub>16</sub> -20 UNF to EN 61518			3	3		
	process flanges. Position o						
	the process flanges (see	)					
dimensional drawin							
- Mounting thread N				5			
	7/ <sub>16</sub> -20 UNF to EN 61518			7			
Non-wetted parts m							
Process flange screw	s Electronics housing						
		_					
	Die-cast aluminium	-			2		
Stainless steel Stainless steel	Die-cast aluminium Stainless steel precision	— on			2		
Stainless steel	Die-cast aluminium	on					
Stainless steel  Version	Die-cast aluminium Stainless steel precision	on					
Stainless steel  Version  • Standard version	Die-cast aluminium Stainless steel precision casting					1	
Stainless steel  Version  Standard version International version	Die-cast aluminium Stainless steel precision casting  n, English label inscription					1 2	
Stainless steel  Version  Standard version International version documentation in 5	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD						
Version  Standard version  International versior documentation in 5  Explosion protection	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD					2	٨
Version • Standard version • International versior documentation in 5  Explosion protection • Without	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD					2	A
Version Standard version International versior documentation in 5 Explosion protection Without With CENELEC, Typ	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  pe of protection:					2	
Stainless steel  Version Standard version International versior documentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E	Die-cast aluminium Stainless steel precisio casting  n, English label inscription languages on CD  n  be of protection: (Ex ia)"	S,				2	В
Version Standard version International versior documentation in 5 Explosion protection Without With CENELEC, Type "Intrinsic safety (E "Explosion-proof (	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  be of protection: (Ex ia)" EEx d)" <sup>2)</sup>	s,				2	B D
Stainless steel  Version Standard version International version documentation in 5  Explosion protection Without With CENELEC, Type "Intrinsic safety (E "Explosion-proof (i "Intrinsic safety ar	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  be of protection: Ex ia)" EEx d)" ind explosion-proof	S,				2	В
Version Standard version International versior documentation in 5 Explosion protection Without With CENELEC, Type "Intrinsic safety (E "Explosion-proof (	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  be of protection: (Ex ia)" (Ex d)" <sup>2)</sup> nd explosion-proof + EEx d)" <sup>3)</sup>	s,				2	B D
Version Standard version International version International version Coumentation in 5  Explosion protection Without With CENELEC, Typ. Intrinsic safety (E Explosion-proof ( Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  be of protection: (Ex ia)" (Ex d)" <sup>2)</sup> nd explosion-proof + EEx d)" <sup>3)</sup> )"	s,				2	B D P
Version Standard version International versior documentation in 5 Explosion protection Without With CENELEC, Typ "Intrinsic safety (E - "Explosion-proof () - "Intrinsic safety ar enclosure (EEx ia - "Ex nA/nL (zone 2 - "Intrinsic safety, ex	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection:  (Ex ia)" (EEx d)" <sup>2)</sup> (nd explosion-proof + EEx d)" <sup>3)</sup> )"  xplosion-proof enclosure	F) F)				2	B D P
Version Standard version International version International version Coumentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, e; and dust explosio EEx d + Zone 1D/	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  be of protection: (Ex ia)" EEx d)" <sup>2)</sup> nd explosion-proof + EEx d)" <sup>3)</sup> " explosion-proof enclosure in protection (EEx ia + (2D)" <sup>3)</sup> (not for DS III FF)	F) F)				2	B D P
Version Standard version International version International version International version documentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, exand dust explosionex d + Zone 1D/ With FM + CSA, Typ.	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection:  (Ex ia)"  EEx d)" <sup>2)</sup> nd explosion-proof + EEx d)" <sup>3)</sup> )"  explosion-proof enclosure on protection (EEx ia + (2D)" <sup>3)</sup> (not for DS III FF) on protection:	F) F)				2	B D P E R
Version Standard version International version International version International version Coumentation in 5  Explosion protection Without With CENELEC, Typ. Intrinsic safety (E Explosion-proof (i Intrinsic safety ar enclosure (EEx ia Ex nA/nL (zone 2) Intrinsic safety, ex and dust explosion EEx d + Zone 1D/ With FM + CSA, Typ. Intrinsic safety ar	Die-cast aluminium Stainless steel precisio casting  n, English label inscription languages on CD  n  be of protection: (Ex ia)" (Ex d)" <sup>2</sup> (nd explosion-proof + EEx d)" <sup>3</sup> )" (xplosion-proof enclosure in protection (EEx ia + (2D)" <sup>3</sup> ) (not for DS III FF) (not explosion-proof ind explosion-proof condenses of protection: (a) (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	F) F)				2	B D P
Version Standard version International version International version International version documentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, ex and dust explosion EEx d + Zone 1D/ With FM + CSA, Typ. "Intrinsic safety ar (is + xp)"2), max P	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection: (Ex ia)" EEx d)" <sup>2)</sup> nd explosion-proof + EEx d)" <sup>3)</sup> (explosion-proof enclosure in protection (EEx ia + (2D)" <sup>3)</sup> (not for DS III FF) of protection: (explosion-proof explosion-proof explosion-proo	F) F)				2	B D P E R
Version Standard version International version International version International version documentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, ex and dust explosionex d + Zone 1D/ With FM + CSA, Typ. "Intrinsic safety ar (is + xp)"2), max P  Electrical connectio	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection: (Ex ia)" (Ex ia)" (Ex d)" <sup>2)</sup> (Ind explosion-proof + EEx d)" <sup>3)</sup> (Ind)" (Ind)	F) F)				2	B D P E R
Version Standard version International version International version International version Coumentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, ex and dust explosio EEx d + Zone 1D/ With FM + CSA, Typ. "Intrinsic safety ar (is + xp)" <sup>2</sup> ), max P  Electrical connectio Screwed gland M20	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection: (Ex ia)" (EEx d)" <sup>2)</sup> and explosion-proof + EEx d)" <sup>3)</sup> (P)" (P)" (P)" (P)" (P)" (P)" (P)" (P)"	F) F)				2	B D P E R
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Version Standard version International version International version International version Cocumentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, ey and dust explosio EEx d + Zone 1D/ With FM + CSA, Typ. "Intrinsic safety ar (is + xp)" <sup>2</sup> ), max P  Electrical connectio Screwed gland M20 Screwed gland M20 Plug M12 incl. matir	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  pe of protection: (Ex ia)" (Ex d)" <sup>2</sup> (Ind explosion-proof + EEx d)" <sup>3</sup> (Ind explosion-proof enclosure in protection (EEx ia + (2D)" <sup>3</sup> )" (not for DS III FF) (Ind explosion-proof enclosure in protection: (Ind explosion-proof enclosure in protection) (Ind explosion-proof enclosure in pro	F) F)				2	B D P E R
Version Standard version International version International version International version documentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, ex and dust explosion EEx d + Zone 1D/ With FM + CSA, Typ. "Intrinsic safety ar (is + xp)"2), max P  Electrical connection Screwed gland M2c1 Plug M12 incl. matin	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection: (Ex ia)" (EEx d)" <sup>2)</sup> Ind explosion-proof + EEx d)" <sup>3)</sup> (In explosion-proof enclosure in protection (EEx ia + (2D)" <sup>3)</sup> ) (not for DS III FF) (not explosion-proof enclosure in protection: (In explosion-proof enclosure in explosion-proof enclosion enclosion enclosion enclosion enclosion enclosion enclosion enclosion enclosio	F) F)				2	B D D P E R N C F
Version Standard version International version International version International version Cocumentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof ( "Intrinsic safety ar enclosure (EEx ia "Ex nA/nL (zone 2 "Intrinsic safety, ex and dust explosion EEx d + Zone 1D/ With FM + CSA, Typ. "Intrinsic safety ar (is + xp)"2), max P  Electrical connection Screwed gland M2c1 Screwed gland M2c1 Plug M12 incl. matir  Display Without (digital disp	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection: (Ex ia)" (Ex ia)" (Ex ia)" (Ex ia)" (Ex ia)" (Ix ia)"	F) F)				2	B D P E R C F
Version Standard version International version International version International version Coumentation in 5  Explosion protection Without With CENELEC, Typ. "Intrinsic safety (E "Explosion-proof (I "Intrinsic safety arenclosure (EEx ia "Ex nA/nt (zone 2 "Intrinsic safety, exand dust explosion EEx d + Zone 1D/ With FM + CSA, Typ. "Intrinsic safety are (is + xp)"2), max P  Electrical connection Screwed gland M20 Screwed gland M20 Screwed gland M20 Plug M12 incl. matin  Display Without (digital dispublication) With visible digital in	Die-cast aluminium Stainless steel precision casting  n, English label inscription languages on CD  n  De of protection: (Ex ia)" (Ex ia)" (Ex ia)" (Ex ia)" (Ex ia)" (Ix ia)"	F) F)				2	B D D P E R N C F
Version Standard version International version International version International version Coumentation in 5  Explosion protection Without With CENELEC, Typ. Intrinsic safety (E Explosion-proof (i Intrinsic safety ar enclosure (EEx ia Ex nA/nL (zone 2 Intrinsic safety, ex and dust explosion EEx d + Zone 1D/ With FM + CSA, Typ. Intrinsic safety ar	Die-cast aluminium Stainless steel precisio casting  n, English label inscription languages on CD  n  be of protection: (Ex ia)" (Ex d)" <sup>2</sup> (nd explosion-proof + EEx d)" <sup>3</sup> )" (xplosion-proof enclosure in protection (EEx ia + (2D)" <sup>3</sup> ) (not for DS III FF) (not explosion-proof ind explosion-proof condenses of protection: (a) (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	F) F)				2	B D P E R

Factory-mounting of shut-off valves and valve manifolds see page

Included in delivery of the device:

- Brief instructions (Leporello)
  CD-ROM with detailed documentation
- Sealing plug(s) or sealing screw(s) for the process flanges(s)

- Not together with max. span 600 mbar (240.9 inH<sub>2</sub>O)
   Without cable gland, with blanking plug.
   With enclosed cable gland EEx ia and blanking plug.
   Not together with types of protection "Explosion-proof" and "Intrinsic safety and explosion-proof"
- F) Subject to export regulations AL: 91999, ECCN: N.

Selection and Ordering data	Order	code			
Further designs		HART	PA	FF	ľ
Add "-Z" to Order No. and specify Order code.					
Pressure transmitter with mounting					
bracket made of:  • Steel	A01	1	1	1	
Stainless steel	A02	1	1	1	
O-rings for process flanges					
(instead of FPM (Viton))					
PTFE (Teflon)	A20	✓	✓	✓	
• FEP (with silicone core, approved for food)	A21	1	1	1	
<ul><li>FFPM (Kalrez, compound 4079)</li><li>NBR (Buna N)</li></ul>	A22 A23	1	<b>4</b>	1	
Plug	ALO	·	·	ľ	
• Han 7D (metal, gray)	A30	1			
• Han 8U (instead of Han 7D)	A31	1			
Sealing screws	A40	1	1	1	
1/4-18 NPT, with valve in material of process					
flanges					
Cable sockets for M12 connectors (metal)	A50	✓	1	✓	
Rating plate inscription					
(instead of German) • English	B11	1	1	1	
• French	B12	1	1	1	
• Spanish	B13	1	1	1	
• Italian	B14	✓	✓	✓	
English rating plate	B21	✓	✓	1	
Pressure units in inH <sub>2</sub> O or psi					
Manufacturer's test certificate M	C11	✓	✓	✓	
(calibration certificate) To DIN 55350, Part 18 and to ISO 8402					
Acceptance test certificate	C12	1	1	1	
To EN 10204-3.1	0.2				
Factory certificate	C14	1	1	1	
To EN 10204-2.2					
"Functional Safety (SIL)" certificate	C20	✓			
"PROFIsafe" certificate and protocol	C21		✓		
Setting of upper limit of output signal to	D05	1			
22.0 mA					
Manufacturer's declaration acc. to NACE	D07	✓	<b>✓</b>	✓	
(only together with seal diaphragm made of Hastelloy and stainless steel)					
Type of protection IP68	D12	1	1	1	
(not together with Han 7D / Han 8U plug,					
Pg 13.5 screwed gland)					
Digital indicator alongside the input keys	D27	✓	✓	✓	
(only together with the devices 7MF45332A.6 orA.7-Z, Y21 or Y22 + Y01)					
Use in or on zone 1D/2D	E01	1	1	1	
(only together with type of protection	LUI	ľ	ľ	ľ	
"Intrinsic safety (EEx ia)")					
Use on zone 0	E02	✓	1	1	
(only together with type of protection "Intrinsic safety (EEx ia)")					
Explosion-proof "Intrinsic safety" to	E25	1	1	1	
INMETRO (Brazil)	L2J	•	•	,	
(only for transmitter 7MF4B)					
Explosion-proof "Intrinsic safety" to	E55	✓	1	1	
NEPSI (China) (only for transmitter 7MF4B)					
(Orny for transmitter / MF4D)					

Selection and Ordering data Order code				
Further designs		HART	PA	FF
Add "-Z" to Order No. and specify Order code.				
Explosion protection "Explosion-proof" to NEPSI (China)	E56	✓	✓	✓
(only for transmitter 7MF4D)				
<b>Explosion-proof "Zone 2" to NEPSI (China)</b> (only for transmitter 7MF4E)	E57	<b>*</b>	✓	~
Interchanging of process connection side	H01	✓	✓	✓
Stainless steel process flanges for vertical differential pressure lines	H03	✓	✓	1
Additional data				
Add "-Z" to Order No. and specify Order code.				
Measuring range to be set				
Specify in plain text:  • With linear characteristic (max. 5 digits): Y01: up to mbar, bar, kPa, MPa, psi	Y01	✓	✓	
• With square-rooted characteristic (max. 5	Y02	✓	✓	
digits): Y01: up to mbar, bar, kPa, MPa, psi				
Measuring point number (TAG No.) Max. 16 characters, specify in plain text:	Y15	✓	✓	1
Y15:				
Measuring point text	Y16	✓	✓	1
Max. 27 characters, specify in plain text: Y16:				
Entry of HART address (TAG) Max. 8 characters, specify in plain text: Y17:	Y17	<b>✓</b>		
Setting of pressure indication in pressure units	Y21	✓	✓	1
Specify in plain text (standard setting: mA): Y21: mbar, bar, kPa, MPa, psi,				
Note:				
The following pressure units can be selected: bar, mbar, mm $H_2O^*$ , in $H_2O^*$ , ft $H_2O^*$ ,				
mmHG, inHG, psi, Pa, kPa, MPa, g/cm <sup>2</sup> , kg/cm <sup>2</sup> , Torr, ATM or % *) ref. temperature 20 °C				
Setting of pressure indication in	Y22 +	1		
non-pressure units Specify in plain text:	Y01 or Y02			
Y22: up to I/min, m <sup>3</sup> /h, m, USgpm,	.02			
(specification of measuring range in pressure units "Y01" or "Y02" is essential, unit with max. 5 characters)				
Preset bus address	Y25		✓	
Specify in plain text: Y25:				

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

<sup>✓ =</sup> available