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Non-wetted parts materials 0 Housing made of die-cast aluminium 0 Housing stainless steel precision casting ⁴) 3 Version 1 International version, English label inscriptions, bocumentation in 5 languages on CD 2 Explosion protection 4 Without A • With ATEX, Type of protection: - • "Intrinsic safety (EEx ia)" B • "Explosion-proof (EEx d)" ⁵) F) • "Intrinsic safety and explosion-proof enclosure F) P (EEx ia + EEx d)" ⁶) - • "Intrinsic safety, explosion-proof enclosure and body at explosion protection (EEx ia + EEx d + F) R • With FM + CSA, Type of protection: - • "Intrinsic safety and explosion-proof F) Voron 1D/2D)" ⁶ NC With FM + CSA, Type of protection: - • "Intrinsic safety and explosion-proof F) Voron 1D/2D)" ⁶ NC • Screwed gland Pg 13.5 (adapter) ⁷) A • Screwed gland M20x1.5 B • Screwed gland ½2-14 NPT C • Han 7D plug (plastic housing) incl. mating F) connector ⁷ F	,									
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Version • Standard version • International version, English label inscriptions, ▲ documentation in 5 languages on CD Explosion protection • Without • Without • With ATEX, Type of protection: • "Intrinsic safety (EEx ia)" • "Explosion-proof (EEx d)" • "Intrinsic safety and explosion-proof enclosure F) ((EEx ia + EEx d)" • "Ex nA/nL (zone 2)" • "Intrinsic safety, explosion-proof enclosure and ► dust explosion protection (EEx ia + EEx d + F) Zone 1D/2D)" • With FM + CSA, Type of protection: • "Intrinsic safety and explosion-proof F Zone 1D/2D)" • With FM + CSA, Type of protection: • "Intrinsic safety and explosion-proof F Zone 1D/2D)" • With FM + CSA, Type of protection: • "Intrinsic safety and explosion-proof F Observed gland M20x1.5 • Screwed gland M20x1.5 • Screwed gland ½-14 NPT • Han 7D plug (plastic housing) incl. mating F) connector 7' • M12 connector (metall) ⁸ Display • Without (digital indicator hidden, setting: mA) • With visible digita										
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 "Explosion-proof (EEx d)" ⁵⁾ F) D "Intrinsic safety and explosion-proof enclosure F) (EEx ia + EEx d)" ⁶⁾ "Ex nA/nL (zone 2)" "Intrinsic safety, explosion-proof enclosure and b dust explosion protection (EEx ia + EEx d + F) Zone 1D/2D)" ⁶⁾ With FM + CSA, Type of protection: "Intrinsic safety and explosion-proof F) NC Electrical connection / cable entry Screwed gland Pg 13.5 (adapter) ⁷⁾ Screwed gland M20x1.5 Screwed gland ¹/₂-14 NPT Han 7D plug (plastic housing) incl. mating F) connector ⁷¹ M12 connector (metall) ⁸⁾ F Display Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 										
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dust explosion protection (EEx ia + EEx d + F) Zone 1D/2D)" ⁶) • With FM + CSA, Type of protection: - "Intrinsic safety and explosion-proof F) (is + xp)" ⁵) Electrical connection / cable entry • Screwed gland Pg 13.5 (adapter) ⁷) • Screwed gland M20x1.5 • Screwed gland M20x1.5 • Screwed gland ½-14 NPT • Han 7D plug (plastic housing) incl. mating F) connector ⁷ / • M12 connector (metall) ⁸) Display • Without (digital indicator hidden, setting: mA) • with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22"		acion proof analogura an	d						-	
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(is + xp)" ⁵) Electrical connection / cable entry Screwed gland Pg 13.5 (adapter) ⁷) A Screwed gland M20x1.5 B Screwed gland ½-14 NPT Han 7D plug (plastic housing) incl. mating F) connector ⁷ M12 connector (metall) ⁸) Display • Without (digital indicator hidden, setting: mA) • With visible digital indicator, setting: mA • with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22"										
Electrical connection / cable entry • Screwed gland Pg 13.5 (adapter) 7) • Screwed gland M20x1.5 • Screwed gland ½-14 NPT • Han 7D plug (plastic housing) incl. mating F) connector 7) • M12 connector (metall) ⁸⁾ • Display • Without (digital indicator hidden, setting: mA) • With visible digital indicator, setting: mA • with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22"	 "Intrinsic safety and 	explosion-proof	F)					1	۱C	
 Screwed gland Pg 13.5 (adapter)⁷⁾ Screwed gland M20x1.5 Screwed gland ¹/₂-14 NPT Han 7D plug (plastic housing) incl. mating F) Connector ⁷ M12 connector (metall) ⁸⁾ Display Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 	(is + xp)" ⁽³⁾									
 Screwed gland M20x1.5 Screwed gland ¹/₂-14 NPT Han 7D plug (plastic housing) incl. mating F) connector ⁷ M12 connector (metall) ⁸ Display Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 										
 Screwed gland ½-14 NPT Han 7D plug (plastic housing) incl. mating F) Connector ⁽⁷⁾ M12 connector (metall) ⁸⁾ Mit2 connector (metall) ⁸⁾ F Display Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 										
 Han 7D plug (plastic housing) incl. mating F) D connector 7/ M12 connector (metall) ⁸⁾ F Display Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 										
 M12 connector (metall)⁸⁾ Display Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 										
 M12 connector (metall)⁸⁾ Display Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 	Han 7D plug (plastic l	nousing) incl. mating	F)						D	1
Display • Without (digital indicator hidden, setting: mA) • With visible digital indicator, setting: mA 6 • with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22"									F	
 Without (digital indicator hidden, setting: mA) With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22" 		17							ľ	
With visible digital indicator, setting: mA with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22"		kan bialalan a 111 - AN								
• with customer-specific digital indicator (setting as specified, Order code "Y21" or "Y22"										
(setting as specified, Order code "Y21" or "Y22"	 With visible digital ind 	icator, setting: mA								
										1
		Urder code "Y21" or "Y22								

 Selection and Ordering data
 Order No.

 SITRANS P pressure transmitters for gage pressure, series DS III HART
 7 M F 4 0 3 3

 Power supply units see "SITRANS I power supply units and isolation
 100 - 100

amplifiers".

Factory-mounting of shut-off values and value manifolds see page $2/133. \end{tabular}$

Included in delivery of the device:

- Brief instructions (Leporello)
- CD-ROM with detailed documentation
- ¹⁾ For oxygen application, add Order code E10.
- ²⁾ 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.
- ³⁾ 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.
- ⁴⁾ Not together with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug".
- ⁵⁾ Without cable gland, with blanking plug
- 6) With enclosed cable gland EEx ia and blanking plug
- ⁷⁾ Not together with type of protection "Explosion-proof" and type of protection "Ex nA".
- 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.

Available ex stock

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

Selection and Ordering	g data	C	Order	N	0.	
SITRANS P pressure t	-					
DS III PA (PROFIBUS F	A) series	7	MF	40	34.	
DS III FF series (FOUN	•	7	ME	4 0	35.	
	,				-	
Measuring cell filling	Measuring cell					_
	cleaning					
Silicone oil	Standard	1				
Inert liquid ¹⁾	Grease-free	3	5			
Nominal measuring ra			в			
1 bar g 4 bar g	(14.5 psi g) F (58 psi g) F		B C			
16 bar g	(232 psi g)	`	D			
63 bar g	(914 psi g)		Е			
160 bar g	(2320 psi g)		F			
400 bar g	(5802 psi g)	_	G			
Wetted parts materials Seal diaphragm	Process connection					
Stainless steel	Stainless steel		٨			
Hastelloy	Stainless steel		B			
Hastelloy	Hastellov		B C Y			
Version as diaphragm s	eal ^{2) 3)}		Y			
Process connection		-				
Connection shank G ¹ / ₂				0		
Female thread 1/2-14 N				1		
Oval flange made of s						
 Mounting thread ⁷/₁₆ Mounting thread M1 				2 3		
 Mounting thread M1 				4		
• Male thread M20 x 1,5			1	5		
Male thread 1/2-14 NPT				6		
Non-wetted parts materials						
Housing made of die-				0		
Housing stainless stee	el precision casting	_		3		
VersionStandard version					4	
	English label inscriptions,				2	
documentation in 5 la						
Explosion protection						
Without					ŀ	٩
With CENELEC, Type "Intrinsic safety (EEx					E	2
 "Intrinsic safety (EEx "Explosion-proof (EE)			Č	
- "Intrinsic safety and	explosion-proof enclosure F				F	2
$(EEx ia + EEx d)^{(5)}$						
 "Ex nA/nL (zone 2)" "Intrinsic safety expl 	osion proof onclosuro and E				E	
dust explosion prote	"Intrinsic safety, explosion-proof enclosure and F) R dust explosion protection (EEx ia + EEx d + Zone 1D/2D)" ⁶⁾ (not for DS III FF)					
With FM + CSA, Type "Intrinsic safety and						1C
 "Intrinsic safety and (is + xp)" ⁵⁾ 	explosion-proof F	1			r	
Electrical connection	cable entry					
Screwed gland M20x						В
 Screwed gland ½-14 Dlug M12 (motol) 6 	NH1					B C F
Plug M12 (metal) ⁶⁾						F
Display	(biddon)					
 Without (digital displa With visible digital ind 						1 6
• With customer-specifie	c digital indicator (setting					7
as specified, Order co						

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

The device is delivered together with brief instructions (Leporello) and a CD-ROM containing detailed documentation.

- ¹⁾ For oxygen application, add Order code E10.
- 2) 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.
- ³⁾ 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.
- ⁴⁾ Without cable gland, with blanking plug.
- ⁵⁾ With enclosed cable gland EEx ia and blanking plug.
- 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.

Selection and Ordering data	Order	code		
Further designs	01001	HART	PA	FF
Add "-Z" to Order No. and specify Order code.				
Pressure transmitter with mounting				
bracket made of:	4.01			
Steel Stainless steel	A01 A02	1 1	4	4
	AUZ	v	•	¥
Han 7D (metal, gray)	A30	~		
Han 7D (metal, gray) Han 8U (instead of Han 7D)	A30 A31	¥		
Cable sockets for M12 connectors (metal)	A50	, ,	~	1
Rating plate inscription	AUU	Ţ		
(instead of German)				
• English	B11	✓	✓	✓
• French	B12	✓	✓	✓
• Spanish	B13	✓	✓	×
Italian	B14	✓	~	1
English rating plate	B21	✓	✓	✓
Pressure units in inH ₂ O or psi				
Manufacturer's test certificate M	C11	✓	✓	×
(calibration certificate) ¹⁾				
To DIN 55350, Part 18 and to ISO 8402				
Acceptance test certificate ²⁾	C12	✓	~	1
To EN 10204-3.1				
Factory certificate	C14	✓	✓	✓
To EN 10204-2.2				
"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	D07	✓	✓	√
Type of protection IP68	D12	✓	~	1
(not together with 7D/				
Han 80 plug, cable gland Pg 13.5)				
Digital indicator alongside the input keys	D27	✓	✓	✓
(only together with the devices 7MF4033-				
0A.6 orA.7-Z, Y21 or Y22 + Y01)	E)			
Supplied with oval flange	D37 ^{F)}	✓	~	~
(1 item), PTFE packing and screws in thread of oval flange				
0	F04			
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	202	Ť	•	•
"Intrinsic safety (EEx ia)")				
Oxygen application	E10	1	1	1
(max. 160 bar g (2320 psi g) for oxygen	210			
measurement and inert liquid)				
Explosion-proof "Intrinsic safety" to	E25	~	1	1
INMETRO (Brazil)				
(only for transmitter 7MF4B)				
Explosion-proof "Intrinsic safety" to	E55	✓	✓	×
NEPSI (China)				
(only for transmitter 7MF4B)				
Explosion protection "Explosion-proof" to	E56	✓	1	1
NEPSI (China) (only for transmitter 7MF4D)				
	E 6 7		1	
Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4E)	E5/	v	*	*

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.
 Whe the acceptance test certificate 3.1 for transmitters with direct-con-nected diaphragm seals is ordered, this certificate must also be ordered with the corresponding seals.

Selection and Ordering data	Order	code		
Additional data Add "-Z" to Order No. and specify Order code.		HART	PA	FF
Measuring range to be set Specify in plain text (max. 5 digits): Y01: up to mbar, bar, kPa, MPa, psi	Y01	~		
Measuring point number (TAG No.) Max. 16 characters, specify in plain text: Y15:	Y15	~	1	*
Measuring point text Max. 27 characters, specify in plain text: Y16:	Y16	~	1	*
Entry of HART address (TAG) Max. 8 characters, specify in plain text: Y17:	Y17	~		
Setting of pressure indication in pressure units Specify in plain text (standard setting: mA): Y21: mbar, bar, kPa, MPa, psi,	Y21	*	1	*
Note: Note: The following pressure units can be selected: bar, mbar, mm $H_2O^{(1)}$, in $H_2O^{(1)}$, ft $H_2O^{(1)}$, mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM oder % *) ref. temperature 20 °C				
Setting of pressure indication in non-pressure units Specify in plain text: Y22: up to I/min, m ³ /h, m, USgpm, (specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)	Y22 + Y01	*		
Preset bus address Specify in plain text: Y25:	Y25		1	
Only "Y01", "Y21", "Y22", "Y25" and "D05" can b	pe facto	ry prese	ət	

✓ = available

Ordering example

Item line:	7MF4033-1EA00-1AA7-Z
B line:	A01 + Y01 + Y21
C line:	Y01: 10 20 bar (145 290 psi)
C line:	Y21: bar (psi)

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