### Transmitters for gauge pressure for the paper industry

SITRANS P DS III with PMC connection

Selection and Orderin	g data		rtic	le	No	٥.			
SITRANS P pressure t pressure, with PMC co series DS III with HAR	onnection		M						
Measuring cell filling	Measuring cell- cleaning								
Silicone oil Inert liquid	normal grease-free to cleanliness level 2	1							
<b>Measuring span (min.</b> 0.01 1 bar <sup>1)</sup> 0.04 4 bar 0.1.6 16 bar	max.) (0.15 14.5 psi) <sup>1)</sup> (0.58 58 psi) (2.32 232 psi)		B C D						
<b>Wetted parts materials</b> Seal diaphragm	Connection shank								
Hastelloy	Stainless steel	-	E	3					
	Thread 1½" ont-flush 1" (not with mini- (7.25 psi) - version "B")			2					
Non-wetted parts mate  ◆ Housing made of die-  ◆ Housing stainless stee	cast aluminium				0				
Version • Standard versions • International version, documentation in 5 Ia (no Order code select						1 2			
Explosion protection  None							A		
<ul> <li>With ATEX, Type of present of the second of the s</li></ul>	a)" of protection:						B C E		
- "Intrinsic Safe (is)" (p	cable entry	-					M		
<ul> <li>Female thread M20 x</li> <li>Female thread ½-14 N</li> <li>M12 connectors (stair</li> </ul>	NPT ()						(	B C F	
Display  • Without display  • Without visible display setting: mA)	/ (display concealed,	<b>•</b>						1	
• With visible display	c display (setting as spec "required)	-						7	

Available ex stock

Power supply units see Chap. 7 "Supplementary Components".

- Included in delivery of the device:
   Brief instructions (Leporello)
   CD-ROM with detailed documentation
- sealing ring
- 1) Only with "PMC Style Standard" process connection
- 2) Not in conjunction with electrical connection option A.
- 3) Only available together with electrical connection options B, C, F or G.
- 4) M12 delivered without cable socket

Selection and Orderin	<u> </u>	Ar	tic	le	Νc	).			
SITRANS P pressure to pressure, with PMC co	transmitter for gauge onnection								
DS III with PROFIBUS		7 M F 4		1.3	١ 4	_			
DS III with FOUNDATION	` '	-		Ī	13				
DS III WILLI I GONDAIN	on rielabas (i i )								
Measuring cell filling	Measuring cell clean-								
Silicone oil	normal	1							
Inert liquid	grease-free to cleanliness level 2	3							
Nominal measuring ra									
1 bar <sup>1)</sup>	(14.5 psi) <sup>1)</sup>		В						
4 bar	(58 psi)		С						
16 bar	(232 psi)		D						
Wetted parts materials Seal diaphragm	s Connection shank								
Hastellov	Stainless steel		В						
1-bar-measuring cell  Non-wetted parts mat	***************************************	-							
<ul><li>Housing made of die-</li><li>Housing stainless ste</li></ul>	-cast aluminium				0 3				
Version									
documentation in 5 la						1			
(no Order code selec	lable)	_							
• None							A		
Electrical connection  • Screwed gland M20x  • Screwed gland ½-14	1.5							B C	
• M12 connectors (stair								F	
Display									
<ul> <li>Without display</li> <li>Without visible display</li> </ul>	y (display concealed,								
setting: bar)  • With visible display									(
<ul> <li>With customer-specification of the control of the control of the control of the control of the customer of the cu</li></ul>	ic display (setting as spec- 1" required)								

Available ex stock

Included in delivery of the device:

- Brief instructions (Leporello)CD-ROM with detailed documentation
- sealing ring
- 1) Only with "PMC Style Standard" process connection
- 2) Sealing is included in delivery.
- 3) M12 delivered without cable socket

## Transmitters for gauge pressure for the paper industry

SITRANS P DS III with PMC connection

Selection and Ordering data	Order	code					
Further designs		HART	PA	FF			
Add "-Z" to Article No. and specify Order code.							
Plug							
<ul><li>Angled</li><li>Han 8D (metal, gray)</li></ul>	A32 A33	1					
, , , , , , , , , , , , , , , , , , , ,	A50	1	/	/			
M12 cable sockets (metal)	Aau			_			
Rating plate inscription (instead of German)							
• English	B11	✓	✓	✓			
• French	B12	✓.	✓	✓.			
Spanish     Italian	B13 B14	<b>√</b>	<b>√</b>	<b>V</b>			
		<b>v</b>	<b>v</b>	· ·			
English rating plate Pressure units in inH <sub>2</sub> 0 and/or psi	B21	✓	✓	<b>V</b>			
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2	C11	✓	✓	✓			
Inspection certificate Acc. to EN 10204-3.1	C12	<b>✓</b>	✓	✓			
Factory certificate	C14	✓	✓	1			
Acc. to EN 10204-2.2							
"Functional safety (SIL2)" certificate acc. to IEC 61508	C20	<b>~</b>					
"Functional safety (SIL2/3)" certificate acc. to IEC 61508	C23	✓					
Device passport Russia	C99	✓	✓	1			
(For price request please contact the technical support							
www.siemens.com/automation/support-request)							
Output signal can be set to upper limit of 22.0mA	D05	✓	✓	1			
Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT)	D12	✓	✓	✓			
Export approval Korea	E11	1	✓	1			
Mounting							
Weldable sockets for standard 1½"     **threaded connection**	P01	✓	1	1			
threaded connection  • Weldable socket for minibolt connection 1" (incl. screw 5/16-18 UNC-2B and washer)	P02	✓	✓	✓			
( 11.01.0)							

Selection and Ordering data	Order	code		
Additional data		HART	PA	FF
Please add "-Z" to Article No. and specify Order code(s) and plain text.				
Measuring range to be set Specify in plain text (max. 5 characters): Y01: up to mbar, bar, kPa, MPa, psi	Y01	<b>√</b>	<b>√</b> 1)	
Stainless steel tag plate and entry in device variable (measuring point descrip-	Y15	✓	✓	✓
tion) Max. 16 characters, specify in plain text: Y15:				
Measuring point text (entry in device vari-	Y16	✓	✓	✓
able) 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	Y21	✓	✓	✓
units Specify in plain text (standard setting: bar): Y21: mbar, bar, kPa, MPa, psi, Note:				
The following pressure units can be selected: bar, mbar, mm H <sub>2</sub> O <sup>*</sup> ), inH <sub>2</sub> O <sup>*</sup> ), ftH <sub>2</sub> O <sup>*</sup> ), 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 non- pressure units <sup>2)</sup>	Y22 +	✓		
pressure units <sup>-7</sup> Specify in plain text: Y22: up to I, m <sup>3</sup> , m, USg, (specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)	Y01			
Preset bus address	Y25		✓	✓
possible between 1 and 126 Max. 8 characters, specify in plain text: Y25:				
Only "VO1" and "VO1" can be factory procest				

Only "Y01" and "Y21" can be factory preset

✓ = available

#### ordering example

Item line: 7MF4133-1DB20-1AB7-Z

B line: C11 + Y01 + Y21

C line: Y01: 1 ... 10 bar (14.5 ... 145 psi)

C line: Y21: bar (psi)

<sup>1)</sup> Measuring accuracies for PROFIBUS PA transmitters with Option Y01 are calculated in the same way as for HART devices.

<sup>2)</sup> Preset values can only be changed over SIMATIC PDM.

# Transmitters for gauge pressure for the paper industry

SITRANS P300 with PMC connection

Selection and Ordering	g data	Ar	ticle l	No.
	re transmitters with PMC mber measuring housing, n English			
with 4 20 mA / HAR	Ī	7 [	MF 8 1	123-
with PROFIBUS PA		7 [	MF 8 1	124-
with FOUNDATION Fie	ldbus (FF)	71	MF 8 1	125-
	, ,			
Measuring cell filling Silicone oil Inert liquid	Measuring cell cleaning normal Cleanliness level 2 to	1 3	П	
more negata	DIN 25410			
Measuring span				
1 bar <sup>1)</sup>	(14.5 psi)	ı	3	
4 bar	(58 psi)		3	
16 bar	(232 psi)	ا	)	
Wetted parts materials	•			
Seal diaphragm	Measuring cell			
Hastelloy	Stainless steel		В	
500 mbar (7.25 psi), r 1-bar-measuring cell ( Non-wetted parts mate	ont-flush 1" (minimum span: lot available with Option B))	_	3	
polished	arawn and electrolytically			
Version • Standard versions				1
Explosion protection				
<ul><li>None</li><li>With ATEX, Type of pro</li></ul>	ntection:			A
- "Intrinsic safety (Ex i				В
• Zone 20/21/22 <sup>2)</sup>	,			C
<ul> <li>Ex nA/nL (Zone 2)<sup>3)</sup></li> </ul>				E
• With FM + CSA, Type				
- "Intrinsic Safe (is)" (p	planned)			M
Electrical connection/				
<ul> <li>Screwed gland M20 x</li> </ul>				A
<ul> <li>Screwed gland M20 x</li> <li>Screwed gland M20 x</li> </ul>	, ,			B C
<ul> <li>M12 connectors (with</li> </ul>	,			F
,	less steel), without cable			G
socket)				
• ½-14 NPT metal threa				Н
<ul> <li>½-14 NPT stainless st</li> </ul>	eel thread <sup>o</sup> /			J

Selection and Ordering data	Article No.
SITRANS P300 pressure transmitters with PMC connection, single-chamber measuring housing, rating plate inscription in English	
with 4 20 mA / HART	7 M F 8 1 2 3 -
with PROFIBUS PA	7 M F 8 1 2 4 -
with FOUNDATION Fieldbus (FF)	7 M F 8 1 2 5 -
	E-1-1-1-1
Display	
<ul> <li>Without display, with keys, closed lid</li> <li>With display and keys, closed lid <sup>6)</sup></li> </ul>	1 2
<ul> <li>With display and keys, lid with Makrolon pane (setting on HART devices: mA, with PROFIBUS PA and FOUNDATION Fieldbus equipment: pressure units)<sup>6)</sup></li> </ul>	4
<ul> <li>With display and keys (setting acc. to specifications, Order code "Y21" or "Y22" required), lid with Makrolon pane<sup>6</sup>)</li> </ul>	5
<ul> <li>With display and keys, lid with glass pane (setting on HART devices: mA, with PROFIBUS PA and FOUNDATION Fieldbus equipment: pressure unit)<sup>6)</sup></li> </ul>	6
<ul> <li>With display (setting acc. to specifications, Order code "Y21" or "Y22" required), lid with glass panel<sup>6)</sup></li> </ul>	7

Power supply units see Chap. 7 "Supplementary Components".

- Included in delivery of the device:
   Brief instructions (Leporello)
   CD-ROM with detailed documentation
- sealing ring
- 1) Only with "Standard" process connection"
- 2) Not in conjunction with electrical connection option A.
- $^{\rm 3)}$  Only available together with electrical connection options B, C, F or G.
- $^{\rm 4)}$  Only together with HART electronics.
- 5) Without cable gland.
- 6) Display cannot be turned.

# Transmitters for gauge pressure for the paper industry

SITRANS P300 with PMC connection

Selection and Ordering data	Order code				
Further designs		HART	PA	FF	
Add "-Z" to Article No. and specify Order code.					
Cable socket for M12 plug					
• metal	A50		<b>√</b>	<b>1</b>	
Stainless steel	A51		✓	<b>√</b>	
Rating plate inscription					
(instead of English)	D40		,	,	
German     French	B10 B12	1	<b>√</b>	<b>√</b>	
• Spanish	B13	<b>√</b>	<b>√</b>		
• Italian	B14	1	<b>√</b>	1	
English rating plate	B21	1	1	1	
Pressure units in inH <sub>2</sub> 0 and/or psi	521	·		·	
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2	C11	✓	✓	✓	
Inspection certificate Acc. to EN 10204-3.1	C12	✓	✓	✓	
Factory certificate Acc. to EN 10204-2.2	C14	✓	✓	✓	
Set output signal to upper limit of 22.0mA	D05	✓	✓	✓	
<b>Degree of protection IP65/IP68</b> (only for M20x1.5 and ½-14 NPT)	D12	✓	✓	✓	
Mounting  • Weldable sockets for standard 1½"	P01	1	<b>√</b>	1	
threaded connection	. 01		•	·	
• Weldable socket for minibolt connection 1" (incl. screw 5/16-18 UNC-2B and washer)	P02	✓	✓	1	

Selection and Ordering data	Order	code		
Additional data		HART	PA	FF
Please add " <b>-Z</b> " to Article No. and specify Order code(s) and plain text.				
Measuring range to be set Specify in plain text (max. 5 characters): Y01: up to mbar, bar, kPa, MPa, psi	Y01	✓	<b>√</b> 1)	
Stainless steel tag plate and entry in device variable (measuring point description)  Max. 16 characters, specify in plain text: Y15:	Y15	✓	✓	✓
Measuring point text (entry in device variable)	Y16	✓	✓	✓
Max. 27 char., specify in plain text: Y16:				
Entry of HART address (TAG)	Y17	✓		
Max. 8 char., specify in plain text: Y17:				
Setting of pressure indication in pressure units	Y21	✓	✓	✓
Specify in plain text (standard setting: bar): Y21: mbar, bar, kPa, MPa, psi, Note: The following pressure units can be selected:				
bar, mbar, mm $\rm H_2O^{*)}$ , in $\rm H_2O^{*)}$ , ft $\rm H_2O^{*)}$ , 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 non-pressure units <sup>2)</sup>	Y22 +	✓		
Specify in plain text: Y22: up to I, m³, m, USg, (specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)	Y01			
Preset bus address possible between 1 and 126 Specify in plain text: Y25:	<b>Y2</b> 5		✓	✓

Only "Y01" and "Y21" can be factory preset

<sup>✓ =</sup> available

<sup>1)</sup> Measuring accuracies for PROFIBUS PA transmitters with Option Y01 are calculated in the same way as for HART devices.

<sup>&</sup>lt;sup>2)</sup> Preset values can only be changed over SIMATIC PDM.