Temperature Measurement Transmitters for field mounting

SITRANS TF280 WirelessHART

Displays and controls					
Display (with illumination)					
• Size of display	104 x 80 pixels				
• Number of digits	Adjustable				
Number of spaces after comma	Adjustable				
Setting options	on site with 3 push buttonswith SIMATIC PDM or HART Communicator				
Auxiliary power					
Battery	3.6 V DC				
Communication					
Wireless standard	WirelessHART V7.1 conforming				
Transmission frequency band	2.4 GHz (ISM-Band)				
Range under reference conditions	Up to 250 m (line of sight) in outside areas				
	Up to 50 m (greatly dependent on obstacles) in Inside areas				
Communication interfaces	HART communication with HART modem				
	WirelessHART				
Certificates and approvals					
Wireless communication approvals	R&TTE FCC				
Classification according to pressure equipment directive (PED 97/23/EC)	This device does not fall under the pressure equipment directive				

 $^{^{1)}}$ Pre-mounted Pt100: Class A (maximum MES: 0.15 + 0.002*|t| °C)

Pre-mounted Pt100: Class A (maximum MES: 0.15 + 0. Calculation for errors: Probable total error = √(MES² + AET² + LTD² + ATE²) Max. error = MES + AET + LTD + ATE It: Absolut value of measured temperature MES: Measurement error of sensor AET: Accuracy error transmitter LTD: Long term drift ATE: Ambient temperature drift

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Selection and Ordering data Article No.									
SITRANS TF280 WirelessHART Temperature			7MP1110-						
transmitter		0 A			- 0		0		
(Required battery not included with delivery, see accessories)	1								
Connections/cable entry									
Cable gland M20x1.5 ¹⁾ Sensor pipe with Pt100, G½" male thread, premounted and connected	> •		C D						
Display									
Digital display, visible	▶ •		1						
Enclosure									
Die-cast aluminum	▶ •			1					
Explosion protection									
Not included	▶ •					Α			
Antenna									
Variable, attached to device	▶ •					ļ	١		
Further designs			Order code						
Please add "-Z" to Article No. and specify Order code(s) and plain text.									
Measuring point number (TAG Nr.) max. 16 digits entered in plain text Y15:		Y15	5						
Measuring point message max. 27 characters entered in plain text: Y16:			Y16						
Accessories		Art	icle	N	0.				
Lithium battery for SITRANS TF280/P280		7M	P19	90)-0/	٩A	00		
Mounting bracket, steel		7M	F 49	97	'-1/	٩C			
Mounting bracket, stainless steel	>	7MF4997-1AJ							
Cover, die-cast aluminum, without window		7MF4997-1BB							
Cover, die-cast aluminum, with window		7MF49		997-1BE					
Thread adapter M20x1.5 (male thread) on $\frac{1}{2}$ -14 NP (female thread)	•	7MP1990-0BA0		00					
Thread adapter M20x1.5 (male thread) on $G^{1\!\!/\!\!_{2}}\!B$ (female thread)	•	7MP1990-0BB0		00					
IE/WSN-PA Link		see	Se	c.	8				
HART modem with RS232 interface	>	7MF4997-1DA							
HART modem with USB interface	>	7M	F49	97	-10	ЭB			
SIMATIC PDM		see	Se	c.	8				

- Available ex stock.
- We can offer shorter delivery times for configurations designated with the Quick Ship Symbol
 For details see page 9/5 in the appendix.

¹⁾Please order sensor separately.