Pressure Measurement Transmitters with WirelessHART

SITRANS P280 for gauge and absolute pressure

Design		
Enclosure material	low-copper die-cast aluminum, AC-AlSi12(Fe)	
Shock resistance	in accordance with DIN EN 60068-2-29 / 03.95	
Resistance to vibration	in accordance with DIN EN 60068-2-6/ 12.07	
Weight		
without battery	1.5 kg (3.31 lb)	
With battery	1.6 kg (3.53 lb)	
Dimensions (W x H x D)	See Dimensional drawing	
Process connection	• G½B male thread as per EN837-1	
	• ½-14 NPT	
Sensor break	Is recognized	
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 buttons with SIMATIC PDM or HART- Communicator	
Power supply		
Battery	3.6 V DC	
Communication		
Radio	WirelessHART V7.1 conforming	
Transmission frequency band	2.4 GHz (ISM-Band)	
Transmission 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	
General Product Safety	CSA _{US/C} , CE, UL	
Classification according to pressure equipment directive	Gases: Fluid group 1	
(PED 97/23/EC)	Liquids: Fluid group 1;	
	meets requirements as per Section 3, Subsection 3 (sound engineering practice)	

for gauge and abso	nute pressure
Selection and Ordering data	Article No.
SITRANS P280 WirelessHART	7MP1120-
pressure transmitter	0
(Required battery not included with delivery, see accessories)	
Measuring cell filling	
Dry measuring cell	0
Measuring span	
Gauge pressure 0 1.6 bar (0 23 psi)	D
0 10 bar (0 145 psi)	E
0 50 bar (0 725 psi)	F
0 200 bar (0 2900 psi) 0 320 bar (0 4641 psi)	G H
Absolute pressure 0 1.6 bar a (0 3 psia)	м
0 10 bar a (0 145 psia)	N
0 50 bar a (0 725 psia)	P
0 200 bar a (0 2900 psia) 0 320 bar a (0 4641 psia)	Q R
Wetted parts	
Ceramic	К
Display	
Display, visible	1
Enclosure	
Die-cast aluminum	. 1
Process connection	
G½ as per EN 837-1 ½-14 NPT	0
Explosion protection	
Without	A
Antenna	
Variable, attached to device	Α
Further designs	Order code
Please add "-Z" to Article No. and specify Order code(s) and plain text.	
Stainless steel tag plate (measuring point	Y15
description) max. 16 digits entered in plain text Y15:	
Measuring point message	Y16
max. 27 characters entered in plain text: Y16:	
Accessories	Article No.
Lithium battery for SITRANS TF280/P280	7MP1990-0AA00
Mounting bracket, steel	7MF4997-1AC
	7MF4997-1AU
Mounting bracket, stainless steel Cover. die-cast aluminum, without window	
	7MF4997-1BB
cover, are east aranimarily with window	7MF4997-1BE
IE/WSN-PA LINK	see Sec. 7
HART modem with HSP interface	7MF4997-1DA
HART modem with USB interface	7MF4997-1DB
SIMATIC PDM	see Sec. 8

Available ex stock