

Temperature Measurement

Transmitters for rail mounting

SITRANS TW
four-wire system, universal, HART

2

Selection and Ordering data	Article No.
SITRANS TW universal transmitter for rail mounting, in four-wire system (order instruction manual separately)	7 NG 3 2 4 2 - ■■■■
Explosion protection	
Without ▶◆	0
For inputs [EEx ia] or [EEx ib] ▶◆	1
Power supply	
115/230 V AC/DC ▶◆	A
24 V AC/DC ▶◆	B
Output signal	
0/4 ... 20 mA (can be switched to) ▶◆	A
0/2 ... 10 V	
0/2 ... 10 V (can be switched to) ▶◆	B
0/4 ... 20 mA	
Sensor fault/limit monitor	
Without (retrofitting not possible) ▶◆	0
Relay with changeover contact	1
Input for	
Temperature sensor, resistance-based sensor and mV sensor with measuring range -120 ... +1000 mV DC and with U/I plug Voltage input (V sources) ¹⁾	0
Measuring range:	
• -1.2 ... +10 V DC	1
• -12 ... +100 V DC (not Ex version)	2
• -120 ... +140 V DC (not Ex version)	3
Current input (µA, mA sources) ¹⁾	
Measuring range:	
• -12 ... +100 µA DC	4
• -120 ... +1000 µA DC	5
• -1.2 ... +10 mA DC	6
• -12 ... +100 mA DC	7
• -120 ... +1000 mA DC	8
Further designs	Order code
Please add "-Z" to Article No. and specify Order code(s) (see "List of parameterizable operating data").	
Customer-specific setting of operating data (see "List of parameterizable operating data")	Y01
Note: specify in plain text: „see Order code“	
Meas. point description (max. 16 char.)	Y23
Text on front of device (max. 32 char.)	Y24
HART tag (max. 8 characters)	Y25
With test report	P01
With shorting plug to HART communication for 0 mA or 0 V	S01
With plug for external cold junction compensation	S02
With U/I plug (-1.2 ... +10 V DC or -12 ... +100 mA)	S03
Language of rating plate (together with Y01 Order Code only)	
Italian	S72
English	S76
French	S77
Spanish	S78

¹⁾Observe max. values with Ex version.

▶ 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.

Selection and Ordering data	Article No.
Accessories	
CD for measuring instruments for temperature ▶	A5E00364512
With documentation in German, English, French, Spanish, Italian, Portuguese and SIPROM T parameterization software	
Instruction Manual for SITRANS TW	
German/English ▶	A5E00054075
French/Italian/Spanish ▶	A5E00064515
Cold junction terminal ▶	7NG3092-8AV
U/I plug ▶	7NG3092-8AW
(-1.2 ... +10 V DC pr -12 ... +100 mA)	
SIMATIC PDM operating software	see Chapter 8
HART modem	
With RS232 interface ▶	7MF4997-1DA
With USB interface ▶	7MF4997-1DB