

Temperature Measurement

Transmitters for field mounting

SITRANS TF
fieldbus transmitter

2

Selection and Ordering data	Article No.
Temperature transmitter in field enclosure with fieldbus communication and electrical isolation, with documentation on CD	7 NG 3 1 3 - - 0
Integrated transmitter SITRANS TH400 with PROFIBUS PA	
• Without Ex protection	7 0
• With Ex ia (ATEX)	7 1
• With Ex nAL for zone 2 (ATEX)	7 2
• Total device SITRANS TF Ex d ¹⁾	7 4
• Total device SITRANS TF according to FM (XP, DIP, NI, S) ¹⁾	7 5
SITRANS TH400, with FOUNDATION fieldbus	
• Without Ex protection	8 0
• With Ex ia (ATEX)	8 1
• With Ex nAL for zone 2 (ATEX)	8 2
• Total device SITRANS TF Ex d ¹⁾	8 4
• Total device SITRANS TF according to FM (XP, DIP, NI, S) ¹⁾	8 5
Enclosure Die-cast aluminium Stainless steel precision casting	A E
Connections/cable inlet Screwed glands M20x1.5 Screwed glands ½-14 NPT	B C
Mounting bracket and fastening parts None Made of steel Stainless steel	0 1 2
Further designs Please add "-Z" to Article No. and specify Order code(s) and plain text.	Order code
Test report (5 measuring points)	C11
Bus connection	
• M12 plug (metal), without mating connector	M00²⁾
• M12 plug (metal), with mating connector	M01³⁾
Explosion protection	
• Explosion protection Ex ia to INMETRO (Brazil) (only with 7NG313.-1....)	E25
• Explosion protection Ex d to INMETRO (Brazil) (only with 7NG313.-4....)	E26
• Explosion protection Ex d to NEPSI (China) (only with 7NG313.-4....)	E56
Customer-specific programming Add *Ashley_18_09_13* to Article No. and specify Order code(s)	
Measuring range to be set Enter in plain text (max. 5 digits): Y01: ... to ... °C, °F	Y01²⁾
Meas. point no. (TAG), max. 32 characters	Y15⁴⁾
Meas. point descriptor, max. 32 characters	Y23⁴⁾
Meas. point message, max. 32 characters	Y24
Bus address, specify in plain text	Y25⁴⁾
Pt100 (IEC) 2-wire, R _L = 0 Ω	U02
Pt100 (IEC) 3-wire	U03
Pt100 (IEC) 4-wire	U04
Thermocouple type B	U20
Thermocouple type C (W5)	U21
Thermocouple type D (W3)	U22
Thermocouple type E	U23
Thermocouple type J	U24
Thermocouple type K	U25

Selection and Ordering data	Order code
Thermocouple type L	U26
Thermocouple type N	U27
Thermocouple type R	U28
Thermocouple type S	U29
Thermocouple type T	U30
Thermocouple type U	U31
With TC: CJC internal	U40
With TC: CJC: external (Pt100, 3-wire)	U41
With TC: CJC: external with fixed value, specify in plain text	Y50
Special differing customer-specific programming, specify in plain text	Y09⁵⁾

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Accessories	
CD for measuring instruments for temperature	A5E00364512
with documentation in German, English, French, Spanish, Italian and Portuguese, and parameterization software SIPROM T (included in delivery with SITRANS TF)	
SIMATIC PDM parameterization software also for SITRANS TF with TH400 PA	see Sec. 8
Mounting bracket and fastening parts Made of steel for 7NG313.-.B.. Made of steel for 7NG313.-.C.. Made of stainless steel for 7NG313.-.B.. Made of stainless steel for 7NG313.-.C..	7MF4997-1AC 7MF4997-1AB 7MF4997-1AJ 7MF4997-1AH
Connection board ▶ Available ex stock.	A5E02391790

Ordering example 1:

7NG3137-0AB01-Z Y01+Y15+Y25+U03
Y01: 0...100 C
Y15: TICA1234HEAT
Y25: 33

Ordering example 2:

7NG3137-0AC01-Z Y01+Y15+Y25+U25+U40
Y01: 0...300 C
Y15: TICA 1234 ABC 5678
Y25: 35

Factory setting:

- for SITRANS TH400 PA:
 - Pt100 (IEC) with 3-wire circuit
 - Unit: °C
 - Failure mode: last valid value
 - Filter time: 0 s
 - PA address: 126
 - PROFIBUS Ident No.: manufacturer-specific
- for SITRANS TH400 FF:
 - Pt100 (IEC) with 3-wire circuit
 - Unit: °C
 - Failure mode: last valid value
 - Filter time: 0 s
 - Node address: 22