

Temperature Measurement

Transmitters for mounting in sensor head

SITRANS TH400 fieldbus transmitter

2

Selection and Ordering data	Article No.
Temperature transmitter SITRANS TH400 for installation in connection head, with electrical isolation, order instruction manual separately.	
<ul style="list-style-type: none"> Bus-compatible to PROFIBUS PA <ul style="list-style-type: none"> No explosion protection or Zone 2/Div 2 to ATEX/FM/CSA ▶ ◆ 7NG3214-0NN00 With explosion protection "Intrinsically safe to ATEX/FM/CSA" ▶ ◆ 7NG3214-0AN00 Bus-compatible to FOUNDATION Fieldbus <ul style="list-style-type: none"> No explosion protection or Zone 2/Div 2 to ATEX/FM/CSA ▶ ◆ 7NG3215-0NN00 With explosion protection "Intrinsically safe to ATEX/FM/CSA" ▶ ◆ 7NG3215-0AN00 	
Further designs	Order code
Please add "-Z" to Article No. and specify Order code(s) and plain text.	
With test protocol (5 measuring points)	C11
Customer-specific programming	
Add "-Z" to Article No. and specify Order code(s)	
Measuring range to be set Enter in plain text	Y01¹⁾
Measuring point no. (TAG), max. 32 characters	Y17
Measuring point descriptor, max. 32 characters	Y23
Measuring point message, max. 32 characters	Y24
Bus address, specify in plain text	Y25
Pt100 (IEC) 2-wire, $R_L = 0 \Omega$	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
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	Y09²⁾

Accessories	Article No.
CD for measuring instruments for temperature ▶	A5E00364512
With documentation in German, English, French, Spanish, Italian, Portuguese and SIPROM T parameterization software	
SIMATIC PDM operating software	See Chapter 9
DIN rail adapters for head transmitters (Quantity delivered: 5 units)	7NG3092-8KA
Connecting cable 4-wire, 150 mm, for sensor connections when using head transmitters in the high hinged cover (set with 5 units)	7NG3092-8KC
for additional PA components,	See Catalog IK PI

▶ 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) Here, you enter the initial and final value of the desired measurement range for customer-specific programming for mV, Ω .2) If needed, here you can mention settings, which cannot be specified with existing order codes (e.g.: programming for mV, Ω).Ordering example 1:

7NG3214-0NN00-Z Y01+Y17+U03
 Y01: 0...100 C
 Y17: TICA1234HEAT

Ordering example 2:

7NG3214-0NN00-Z Y01+Y17+Y25+U25+U40
 Y01: 0...500 C
 Y17: TICA5678HEAT
 Y25: 33

Factory setting:

- For SITRANS TH400 PA:
 - Pt100 (IEC 751) 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 751) with 3-wire circuit
 - Unit: °C
 - Failure mode: Last valid value
 - Filter time: 0 s