

Selection and Ordering data

Order No.

Temperature transmitter SITRANS TH300

for installation in connection head, type B (DIN 43729), two-wire system 4 ... 20 mA, communication capable to HART, with galvanic isolation

- Without explosion protection ▶ C) **7NG3212-0NN00**
- With explosion protection
 - to ATEX ▶ C) **7NG3212-0AN00**
 - to FM (C_{FMUS}) ▶ C) **7NG3212-0BN00**

Further designs

Order code

Add "-Z" to Order No. and specify Order code(s)

with test protocol (5 measuring points)

C11

Functional safety SIL2

C20

Functional safety SIL2/3

C23**Customer-specific programming**

Add "-Z" to Order No. and specify Order code(s)

Customer specific programming, specify **measuring range** in plain text**Y01¹⁾**

Measuring point no. (TAG), max. 8 characters

Y17¹⁾

Measuring point descriptor, max. 16 characters

Y23¹⁾

Measuring point message, max. 32 characters

Y24¹⁾Pt100 (IEC) 2-wire, R_L = 0 Ω**U02¹⁾**

Pt100 (IEC) 3-wire

U03¹⁾

Pt100 (IEC) 4-wire

U04¹⁾

Thermocouple type B

U20¹⁾

Thermocouple type C (W5)

U21¹⁾

Thermocouple type D (W3)

U22¹⁾

Thermocouple type E

U23¹⁾

Thermocouple type J

U24¹⁾

Thermocouple type K

U25¹⁾

Thermocouple type L

U26¹⁾

Thermocouple type N

U27¹⁾

Thermocouple type R

U28¹⁾

Thermocouple type S

U29¹⁾

Thermocouple type T

U30¹⁾

Thermocouple type U

U31¹⁾

With TC: CJC internal

U40¹⁾

With TC: CJC external (Pt100, 3-wire)

U41¹⁾

With TC: CJC external with fixed value, specify in plain text

Y50¹⁾

Special differing customer-specific programming, specify in plain text

Y09¹⁾²⁾

Fail-safe value 3.6 mA (instead of 22,8 mA)

U36¹⁾**Accessories**

Order No.

CD for measuring instruments for temperature**A5E00364512**

With documentation in German, English, French, Spanish, Italian, Portuguese and SIPROM T parameterization software

HART modem

- With RS 232 connection ▶ D) **7MF4997-1DA**
- With USB connection ▶ D) **7MF4997-1DB**

SIMATIC PDM operating software**See Section 9**

(Quantity delivered: 5 units)

7NG3092-8KA**7NG3092-8KC****Connecting cable**

4-wire, 150 mm, for sensor connections when using head transmitters in the high hinged cover (set with 5 units)

▶ Available ex stock.

- 1) Y01 is mandatory for any customer-specific programming. Additionally with Y01 the data of the customer-specific programming are printed on the product.
- 2) If needed, here you can mention settings, which cannot be specified with existing order codes.

C) Subject to export regulations AL: N, ECCN: EAR99.

D) Subject to export regulations AL: N, ECCN: EAR99H.

Supply units see Chap. 8 "Supplementary Components".

Ordering example 1:

7NG3212-0NN00-Z Y01+Y17+U03

Y01: 0...100 C

Y17: TICA123

Ordering example 2:

7NG3212-0NN00-Z Y01+Y23+ U25+U40

Y01: 0...100 C

Y23: TICA1234HEAT

Factory setting:

- Pt100 (IEC 751) with 3-wire circuit
- Measuring range: 0 ... 100 °C (32 ... 212 °F)
- Fault current: 22.8 mA
- Sensor offset: 0 °C (0 °F)
- Damping 0.0 s