

Temperature Measurement

Transmitters for rail mounting

SITRANS TR300

two-wire system, universal, HART

2

Selection and Ordering data Article No.

| Temperature transmitter SITRANS TR300 | |
|--|-------------------------|
| For mounting on a standard DIN rail, two-wire system, 4 ... 20 mA, HART, with electrical isolation, with documentation on CD | |
| • Without explosion protection ▶ ◆ | 7NG3033-0JN00 |
| • With explosion protection to ATEX ▶ ◆ | 7NG3033-1JN00 |
| Further designs | Order code |
| Please add "-Z" to Article No. with and specify Order codes(s). | |
| With test protocol (5 measuring points) | C11 |
| Functional safety SIL2 | C20 |
| Functional safety SIL2/3 | C23 |
| Customer-specific programming | |
| Add "-Z" to Article No. and specify Order code(s) | |
| Measuring range to be set Enter in plain text (max. 5 digits): Y01: ... to ... °C, °F | Y01¹⁾ |
| Measuring point no. (TAG), max. 8 characters | Y17 |
| Measuring point descriptor, max. 16 characters | Y23 |
| Measuring point message, max. 32 characters | Y24 |
| Text on front label, max. 16 characters | Y29²⁾ |
| 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 | Y09³⁾ |
| Fail-safe value 3.6 mA (instead of 22.8 mA) | U36 |

Accessories

| CD for measuring instruments for temperature ▶ | | Article No. |
|--|--|----------------------|
| With documentation in German, English, French, Spanish, Italian, Portuguese and SIPROM T parameterization software | | A5E00364512 |
| HART modem | | |
| • With RS 232 connection ▶ | | 7MF4997-1DA |
| • With USB connection ▶ | | 7MF4997-1DB |
| Simatic PDM operating software | | See Section 9 |

▶ 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 RTD and TC.
- 2) Text on front label not stored inside transmitter.
- 3) Here, you enter the initial and final value of the desired measurement range for customer-specific programming for mV, Ω .

Supply units see Chapter 7 "Supplementary Components".

Ordering example 1:

7NG3033-0JN00-Z Y01+Y17+Y29+U03
 Y01: 0...100 C
 Y17: TICA123
 Y29: TICA123

Ordering example 2:

7NG3033-0JN00-Z Y01+Y17+Y23+Y29+U25+U40
 Y01: 0...600 C
 Y17: TICA123
 Y23: TICA123HEAT
 Y29: TICA123HEAT

Factory setting:

- Pt100 (IEC 751) with 3-wire circuit
- Measuring range: 0 ... 100 °C (32 ... 212 °F)
- Error signal in the event of sensor breakage: 22.8 mA
- Sensor offset: 0 °C (0 °F)
- Damping 0.0 s