Selection and Ordering data	Order No.
Temperature transmitter in field housing Two-wire system 4 ... 20 mA, with electrical isolation, with documentation on CD-ROM	**7 N G 3 1 3** ■ - ■ ■ ■ ■ ■

Integrated transmitter SITRANS TH200, programmable		
• Without Ex protection	5	0
• With Ex ia	5	1
• With Ex nAL for zone 2	5	2
• Total device SITRANS TF Ex d[1]	5	4
• Total device SITRANS TF according to FM (XP, DIP, NI, S)[1]	5	5
SITRANS TH300, communication capability according to HART V 5.9		
• Without Ex-protection	6	0
• With Ex ia	6	1
• With Ex nAL for zone 2	6	2
• Total device SITRANS TF Ex d[1]	6	4
• Total device SITRANS TF according to FM (XP, DIP, NI, S)[1]	6	5

Enclosure	
Die-cast aluminium	A
Stainless steel precision casting	E

Connections/cable inlet	
Screwed glands M20x1.5	B
Screwed glands ½-14 NPT	C

Digital indicator	
Without	0
With	1

Mounting bracket and securing parts	
Without	0
Made of steel	1
Made of stainless steel	2

Further designs	Order code
Please add "**-Z**" to Order No. and specify Order code(s) and plain text.	
Test protocol (5 measuring points)	**C11**[2]
Functional safety SIL2	**C20**
Functional safety SIL2/3	**C23**
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 "-Z" to Order No. and specify Order code(s)	
Customer specific programming, specify **measuring range** in plain text	**Y01**[3]
Measuring point no. (TAG), max. 8 characters	**Y17**[3]
Meas. point descriptor, max. 16 characters	**Y23**[3][4]
Meas. point message, max. 32 characters	**Y24**[3][4]
Only inscription on measuring point label: specify in plain text: Measuring range	**Y22**[4]
Pt100 (IEC) 2-wire, $R_L = 0\ \Omega$	**U02**[3]
Pt100 (IEC) 3-wire	**U03**[3]
Pt100 (IEC) 4-wire	**U04**[3]
Thermocouple type B	**U20**[3]
Thermocouple type C (W5)	**U21**[3]
Thermocouple type D (W3)	**U22**[3]
Thermocouple type E	**U23**[3]
Thermocouple type J	**U24**[3]
Thermocouple type K	**U25**[3]
Thermocouple type L	**U26**[3]

Selection and Ordering data	Order No.
Thermocouple type N	**U27**[3]
Thermocouple type R	**U28**[3]
Thermocouple type S	**U29**[3]
Thermocouple type T	**U30**[3]
Thermocouple type U	**U31**[3]
With TC: CJC internal	**U40**[3]
With TC: CJC external (Pt100, 3-wire)	**U41**[3]
With TC: CJC external with fixed value, specify in plain text	**Y50**[3]
Special differing customer-specific programming, specify in plain text	**Y09**[5]
Fail-safe value 3.6 mA (instead of 22.8 mA)	**U36**[3]

Supply units see Chap. 7 "Supplementary Components".

[1] Without cable gland.
[2] Can only be ordered together with Y01, specify measuring range in plain text.
[3] Here, you enter the initial and final value of the desired measurement range for customer-specific programming for RTD and TC.
[4] If only Y22, Y23 and Y24 are ordered and the label only has to be on the tag plate, Y01 does not have to be specified.
[5] If needed, here you can mention settings, which cannot be specified with existing order codes (e.g.: programming for mV, Ω).

Selection and Ordering data	Order No.
Accessories	
Modem for SITRANS TH100, TH200 and TR200 incl. parameterization software T with USB interface	▶ **7NG3092-8KU**
CD for measuring instruments for temperature with documentation in German, English, French, Spanish, Italian and Portuguese, and parameterization software SIPROM T (included in delivery with SITRANS TF)	▶ **A5E00364512**
HART modem With RS 232 interface With USB interface	▶ **7MF4997-1DA** ▶ **7MF4997-1DB**
SIMATIC PDM parameterization software also for SITRANS TH300	**see chap. 8**
Mounting bracket and securing 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**
Digital indicator[1]	**7MF4997-1BS**
Connection board	**A5E02226423**

▶ Available ex stock.
Supply units see Chap. 7 "Supplementary Components".

[1] It is not possible to upgrade devices with Ex protection

Ordering example 1:
7NG3135-0AB11-Z Y01+Y23+U03
Y01: 0...100 C
Y23: TICA1234HEAT

Ordering example 2:
7NG3136-0AC11-Z Y01+Y23+Y24+U25+U40
Y01: 0...300 C
Y23: TICA 1234 ABC
Y24: HEATING BOILER 56789

Factory setting (transmitter):
• Pt100 (IEC 751) with three-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

Selection and Ordering data | Order No.

SITRANS TF field indicator for 4 ... 20 mA signals, with documentation on CD-ROM	**7 N G 3 1 3 0 -** ◼◼◼◼◼◼		

Without Ex-protection	**0**	**1**
With Ex ia	**1**	**1**
With Ex nAL for zone 2	**2**	**1**
Total device SITRANS TF Ex d[1]	**4**	**1**
Total device SITRANS TF according to FM (XP, DIP, NI, S)[1]	**5**	**1**

Enclosure

Die-cast aluminium	**A**
Stainless steel precision casting	**E**

Connections/cable inlet

Screwed glands M20x1.5	**B**
Screwed glands ½-14 NPT	**C**

Digital indicator

With	**1**

Mounting bracket and securing parts

Without	**0**
Made of steel	**1**
Made of stainless steel	**2**

Further designs	Order code
Please add "**-Z**" to Order No. and specify Order code(s) and plain text.	
Test protocol (5 measuring points)	**C11**[2]
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 "-Z" to Order No. and specify Order code(s)	
Customer specific programming, specify **measuring range** in plain text	**Y01**[3]
Only inscription on TAG plate: specify in plain text: Measuring range	**Y22**
Only inscription on TAG plate: Measuring point descriptor, max. 16 characters	**Y23**
Only inscription on TAG plate: Measuring point message, max. 27 characters	**Y24**
Special differing customer-specific programming, specify in plain text	**Y09**[4]

Supply units see Chap. 7 "Supplementary Components".

[1] Without cable gland.
[2] Can only be ordered together with Y01.
[3] Here, you enter the initial and final value of the desired measurement range for customer-specific programming for RTD and TC.
[4] If needed, here you can mention settings, which cannot be specified with existing order codes (e.g.: programming for mV, Ω).

Selection and Ordering data | Order No.

Accessories

CD for measuring instruments for temperature ▶ with documentation in German, English, French, Spanish, Italian and Portuguese, and parameterization software SIPROM T (included in delivery with SITRANS TF)	**A5E00364512**
Mounting bracket and securing parts	
Made of steel for 7NG313.-..B..	**7MF4997-1AC**
Made of steel for 7NG313.-..C..	**7MF4997-1AB**
Made of stainless steel for 7NG313.-..B.. ▶	**7MF4997-1AJ**
Made of stainless steel for 7NG313.-..C..	**7MF4997-1AH**
Digital indicator[1]	**7MF4997-1BS**
Connection board	**A5E02226423**

▶ Available ex stock.

[1] It is not possible to upgrade devices with Ex protection

Ordering example 1:

7NG3130-0AB10-Z Y01+Y23
Y01: -5...100 C
Y23: TICA1234HEAT

Ordering example 2:

7NG3130-0AC10-Z Y01+Y23+Y24
Y01: 0 ... 20 BAR
Y23: PICA 1234 ABC
Y29: HEATING BOILER 67890

Factory setting (field indicator):

• 4 ... 20 mA