Selection and Ordering data	Order No.	
Temperature transmitter in field housing D)	7 N G 3 1 3 -	
Two-wire system 4 20 mA, with electrical isolation, with documentation on CD-ROM		
Integrated transmitter		
SITRANS TH200, programmable		
Without Ex protectionWith Ex ia	50 51	
With Ex nAL for zone 2	5 1 5 2	
• Total device SITRANS TF Ex d ¹⁾	5 4	
Total device SITRANS TF according to FM	5 5	
(XP, DIP, NI, S) ¹⁾ SITRANS TH300, communication capability		
according to HART V 5.9		
Without Ex-protection	6 0	
 With Ex ia With Ex nAL for zone 2 	6 1 6 2	
Total device SITRANS TF Ex d ¹⁾	6 4	
 Total device SITRANS TF according to FM 	6 5	
(XP, DIP, NI, S) ¹⁾		
Enclosure Die-cast aluminium	А	
Stainless steel precision casting	Ē	
Connections/cable inlet		
Screwed glands M20x1.5	В	
Screwed glands ½-14 NPT	C	
Digital indicator		
Without With	0	
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 7NG3131) 	E25	
Explosion protection Ex d to INMETRO	E26	
(Brazil) (only with 7NG3134)		
Explosion protection Ex d to NEPSI	E56	
(China) (only with 7NG3134)		
Customer-specific programming Add "-Z" to Order No. and specify Order code(s)		
Customer specific programming, specify	Y01 ³⁾	
measuring range in plain text		
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, $R_{\rm I} = 0 \Omega$	U02 ³⁾	
Pt100 (IEC) 3-wire	U03 ³⁾	
Pt100 (IEC) 4-wire U04³		
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, spe- cify in plain text	Y50 ³⁾
Special differing customer-specific program- ming, specify in plain text	Y09 ³⁾⁵⁾
Fail-safe value 3.6 mA (instead of 22.8 mA)	U36 ³⁾

Supply units see Chap. 8 "Supplementary Components".

¹⁾ Without cable gland.

- ²⁾ Can only be ordered together with Y01, specify measuring range in
- ³⁾ Y01 is madatory for any customer-specific programming (measuring range will be mentioned on measuring point label as well, Y22 not necessary).
- ⁴⁾ If only Y22, Y23 and Y24 are ordered and the label <u>only</u> 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.

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)	Þ	A5E00364512
HART modem		
With RS 232 interface	,	7MF4997-1DA
With USB interface	► D)	7MF4997-1DB
SIMATIC PDM parameterization software also for SITRANS TH300		see chap. 9
Mounting bracket and securing parts		
Made of steel for 7NG313B		7MF4997-1AC
Made of steel for 7NG313C		7MF4997-1AB
Made of stainless steel for 7NG313B		7MF4997-1AJ
Made of stainless steel for 7NG313C		7MF4997-1AH
Digital indicator ¹⁾		7MF4997-1BS
Connection board		A5E02226423
Available ex stock.		

Supply units see Chap. 8 "Supplementary Components".

¹⁾ It is not possible to upgrade devices with Ex protection

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

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	7 N G 3 1 3 0 -
for 4 20 mA signals, with documentation on CD-ROM	
Without Ex-protection With Ex ia With Ex nAL for zone 2 Total device SITRANS TF Ex d^{1} Total device SITRANS TF according to FM (XP, DIP, NI, S) ¹	0 1 1 1 2 1 4 1 5 1
Enclosure Die-cast aluminium Stainless steel precision casting	A
Connections/cable inlet Screwed glands M20x1.5 Screwed glands ½-14 NPT	B C
Digital indicator With	1
Mounting bracket and securing parts Without Made of steel Made of stainless steel	0 1 2
Further designs Please add "- Z " to Order No. and specify Order code(s) and plain text.	Order code
Test protocol (5 measuring points)	C11 ²⁾
Explosion protection	
 Explosion protection Ex ia to INMETRO (Brazil) (only with 7NG3131) 	E25
 Explosion protection Ex d to INMETRO (Brazil) (only with 7NG3134) 	E26
 Explosion protection Ex d to NEPSI (China) (only with 7NG3134) 	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 program- ming, specify in plain text	Y09 ⁴⁾

Supply units :	see Chap.	8 "Supplementary	Components".
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- Without cable gland.
 Can only be ordered together with Y01.
 Y01 is madatory for any customer-specific programming (measuring range will be mentioned on Measuring point label as well, Y22 not necessary).
- 4) If needed, here you can mention settings, which cannot be specified with existing order codes.

Selection and Ordering data	Order No.
Accessories	
CD for measuring instruments	A5E00364512
with documentation in German, English, French, Spanish, Italian and Portuguese, and parameterization software SIPROM T (included in delivery with SITRANS TF)	
Mounting bracket and securing parts	-
Made of steel for 7NG313B	7MF4997-1AC
Made of steel for 7NG313C	7MF4997-1AB
Made of stainless steel for 7NG313B	7MF4997-1AJ
Made of stainless steel for 7NG313C	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