## **Temperature Measurement**

Transmitters for mounting in sensor head

## SITRANS TH100 two-wire system (Pt100)

## Overview



The SITRANS TH100 dispenses with electrical isolation and universal sensor connection to provide a low-cost alternative for Pt100 measurements.

For the parameterization, the SIPROM T software is used in combination with the modem for SITRANS TH100/TH200.

Its extremely compact design makes the SITRANS TH100 ideal for the retrofitting of measuring points or for the use of analog transmitters.

The transmitter is available as a non-Ex version as well as for use in potentially explosive atmospheres.

#### Benefits

- Two-wire transmitter
- Assembly in connection head type B (DIN 43729) or larger, or on a standard DIN rail
- Can be programmed, which means that the sensor connection, measuring range, etc. can also be programmed
- · Intrinsically-safe version for use in potentially explosive areas

## Application

Used in conjunction with Pt100 resistance thermometers, the SITRANS TH100 transmitters are ideal for measuring temperatures in all industries. Due to its compact size it can be installed in the connection head type B (DIN 43729) or larger.

The output signal is a direct current from 4 to 20 mA that is proportional to the temperature.

Parameterization is implemented over the PC using the parameterization software SIPROM T and the modem for SITRANS TH100/TH200. If you already have a "modem for SITRANS TK" (Article No. 7NG3190-6KB), you can continue using this to parameterize the SITRANS TH100.

Transmitters of the "intrinsically-safe" type of protection can be installed within potentially explosive atmospheres. The devices comply with the Directive 94/9/EC (ATEX), as well as FM and CSA regulations.

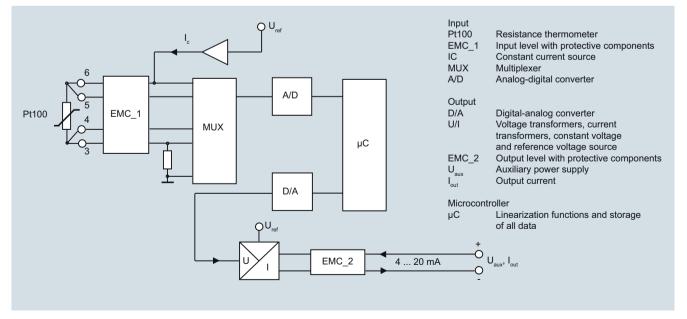
#### Function

#### Mode of operation

The measured signal supplied by a Pt100 resistance thermometer (2, 3 or 4-wire system) is amplified in the input stage. The voltage, which is proportional to the input variable, is then converted into digital signals by a multiplexer in an analog/digital converter. They are converted in the microcontroller in accordance with the sensor characteristics and further parameters (measuring range, damping, ambient temperature etc.).

The signal prepared in this way is converted in a digital/analog converter into a load-independent direct current of 4 to 20 mA.

An EMC filter protects the input and output circuits against electromagnetic interferences.



SITRANS TH100, function diagram

**Temperature Measurement** Transmitters for mounting in sensor head

## SITRANS TH100 two-wire system (Pt100)

Input		Construction	
Resistance thermometer		Weight	50 g
Measured variable	Temperature	Dimensions	See dimensional drawing
Sensor type	PT100 to IEC 60751	Material	Molded plastic
Characteristic curve	Temperature-linear	Cross-section of cables	Max. 2.5 mm <sup>2</sup> (AWG 13)
Type of connection	2-, 3- or 4-wire circuit	Degree of protection to IEC 60529	
Resolution	14 bit	Enclosure	IP40
Measuring accuracy		Terminals	IP00
• Span <250 °C (450 °F) • Span >250 °C (450 °F)	< 0.25 °C (0.45 °F) < 0.1 % of span	Certificates and approvals Explosion protection ATEX	
Repeatability	< 0.1 °C (0.18 °F)	EC type test certificate	PTB 05 ATEX 2049X
Measuring current	approx. 0.4 mA	<ul> <li>"Intrinsic gas safety" type of pro-</li> </ul>	II 1 G Ex ia IIC T6/T4
Measuring cycle	< 0.7 s	tection	II (1) 2 G Ex ib [ia Ga] IIC T6/T4 ( II (1) 3 G Ex ic [ia Ga] IIC T6/T4 (
Measuring range	-200 +850 °C -328 +1562 °F)	<ul> <li>"Non-sparking" type of protection</li> </ul>	II 3 G Ex ic IIC T6/T4 Gc II 3 G Ex nA IIC T6/T4 Gc
Measuring span	25 1050 °C (77 1922 °F)		II 3 G Ex nA[ic] IIC T6/T4 Gc
Unit	°C or °F	<ul> <li>"Intrinsic dust safety" type of pro- tection</li> </ul>	II 1 D Ex ia IIIC T115 °C Da
Offset	programmable: -100 +100 °C (-180 +180 °F)	Explosion protection FM for USA • FM approval	FM 3024169
Line resistance	Max. 20 $\Omega$ (total from feeder and return conductor)	Degree of protection	IS / CI I, II, III / Div 1 / GP ABCDE T6, T5, T4
Noise rejection	50 and 60 Hz		CI I / ZN 0 / AEx ia IIC T6, T5, T4 NI / CI I / Div 2 / GP ABCDFG T6
Output			T5, T4
Output signal	4 20 mA, two-wire	Euclosian protection EM for Concide	NI / CI I / ZN 2 / IIC T6, T5, T4
Auxiliary power	8.5 36 V DC (30 V for Ex ia and ib; 32 V for Ex nL/ic; 35 V for Ex nA)	Explosion protection FM for Canada ( <sub>c</sub> FM <sub>US</sub> ) • FM approval	FM 3024169C
Max. load	(U <sub>aux</sub> - 8.5 V)/0.023 A	<ul> <li>Degree of protection</li> </ul>	IS / CI I, II, III / Div 1/ GP ABCDEF T6, T5, T4
Overrange	3.6 23 mA, infinitely adjustable (default range: 3.84 20.5 mA)		NI/CII/DIV2/GPABCDT6, T5 T4
Error signal (following sensor fault) (conforming to NE43)	3.6 23 mA, infinitely adjustable (default range: 3.6 mA or 22.8 mA)		NIFW / CI I, II, III / DIV 2 / GP ABCDFG T6, T5, T4 DIP / CI II, III / Div 2 / GP FG T6, <sup>-</sup> T4
Damping time	0 30 s (default value: 0 s)		CII/ZN0/Ex ia IIC T6, T5, T4
Protection	Against reversed polarity		CI I / ZN 2 / Ex nA nL IIC T6, T5,
Resolution	12 bit	Other certificates	EAC Ex(GOST), NEPSI
Accuracy at 23 °C (73.4 °F)	< 0.1 % of span	Software requirements for SIPROM T	
Temperature effect	< 0.1 %/10 °C (0.1 %/18 °F)	PC operating system	Windows ME, 2000, XP, Win 7 ar
Effect of auxiliary power	< 0.01 % of span/V		Win 8; can also be used in con-
Effect of load impedance	< 0.025 % of max. span/100 Ω		nection with RS 232 modem under Windows 95, 98 and 98S
Long-term drift	<ul> <li>&lt; 0.025 % of the max. span in the first month</li> <li>&lt; 0.035 % of the max. span after one year</li> <li>&lt; 0.05 % of the max. span after 5 years</li> </ul>		
Ambient conditions			
Ambient temperature range	-40 +85 °C (-40 +185 °F)		
Storage temperature range	-40 +85 °C (-40 +185 °F)		
Relative humidity	98 %, with condensation		

## **Temperature Measurement**

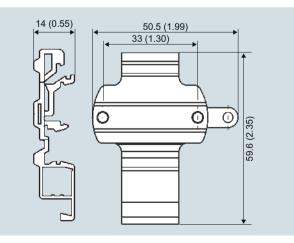
Transmitters for mounting in sensor head

## SITRANS TH100 two-wire system (Pt100)

SITRANS TH100 temperature transmitters for Pit100 for installation in connection head, type B (DN 43729), two-wire system, 4 20 mA, programmable, without electrical isolation       • 7NG3211-0NN00         • Without explosion protection • Without explosion protection "Intrinsic safety" type of protection and for zone 2 • to ATEX • to FM (_FMujs)       • 7NG3211-0NN00         • Without explosion protection "Intrinsic safety" type of protection and for zone 2 • to ATEX • to FM (_FMujs)       • 7NG3211-0AN00 7NG3211-0BN00         Further designs Add *2 to Article No. and specify Order code(s)       Order code         Test report (5 measuring points)       C11         Customer-specific programming Add *2 to Article No. and specify Order code(s)       Y01 <sup>1</sup> )         Measuring point no. (TAG), max. 8 characters Prito0 (EC) 2-wire, R <sub>L</sub> = 0 Ω       Y02 <sup>3</sup> )         Pit100 (EC) 2-wire, R <sub>L</sub> = 0 Ω       U02 <sup>3</sup> )         Pit100 (EC) 2-wire, R <sub>L</sub> = 0 Ω       U03 <sup>3</sup> )         Pit100 (EC) 2-wire, R <sub>L</sub> = 0 Ω       U03 <sup>3</sup> )         Pit100 (EC) 2-wire, R <sub>L</sub> = 0 Ω       U03 <sup>3</sup> )         Pit100 (EC) 2-wire, R <sub>L</sub> = 0 Ω       U03 <sup>3</sup> )         Pit100 (EC) 2-wire Relissafe value 3.6 mA (Instead of 22,8 mA)       U36 <sup>3</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 mof TF with H200 Incl. SIFPROM T parameteri- zation software With USB connection       NGS00284512	Selection and Ordering data	Article No.	Dimensional drawings	
for PH100       Internal diameter (Center hole 6.3 (0.25))         for Add '27 to Article No. and specify Order code(s)       TNG3211-0NN00         Further designs       Order code         Add '27 to Article No. and specify Order code(s)       Internal diameter (Center hole 6.3 (0.25))         Measuring range to be set       Y01'1         Specify in plain text (max. 5 digits):       Y01'1         Reasuring point no. (TAG), max. 8 characters       Y172'1         Measuring point descriptor, max. 16 characters       Y172'1         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U02'3         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U02'3         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U03'3         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U03'3         P1100 (IEC) 2-wire       U03'3         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U03'3         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U03'3         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U03'3         Special differing c	•	Article No.	Dimensional drawings	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	for Pt100			
• With explosite protection multise safety type of protection and for zone 2       • to ATEX       ▶ ● <b>7NG3211-0AN00</b> • to FM ( <sub>c</sub> FM <sub>US</sub> )       ▶ ● <b>7NG3211-0BN00</b> Order code         Add *-Z' to Article No. and specify Order code(s)       Order code       Internal diameter Center hole 6.3 (0.25)         Measuring range to be set <b>Y01</b> <sup>11</sup> <b>Y01</b> <sup>11</sup> Wouting screw         Measuring point descriptor, max. 16 characters <b>Y17</b> <sup>21</sup> Y0100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω <b>U02</b> <sup>3</sup> P1100 (IEC) 3-wire <b>U03</b> <sup>3</sup> P1100 (IEC) 4-wire <b>U04</b> <sup>3</sup> Specify in plain text <b>Y09</b> <sup>41</sup> Fail-safe value 3.6 mA (instead of 22.8 mA) <b>U36</b> <sup>21</sup> Accessories       Article No.         Modem for SITRANS TH100, TH200 TR200 * and TF with TH200 incl. SIPROM T parameterization software       Article No.         Mith USD for temperature measuring instru- ▶       A5E00364512	(DIN 43729), two-wire system, 4 20 mA,		0.08	
• With explosite protection multise safety type of protection and for zone 2       • to ATEX       ▶ ● <b>7NG3211-0AN00</b> • to FM ( <sub>c</sub> FM <sub>US</sub> )       ▶ ● <b>7NG3211-0BN00</b> Order code         Add *-Z' to Article No. and specify Order code(s)       Order code       Internal diameter Center hole 6.3 (0.25)         Measuring range to be set <b>Y01</b> <sup>11</sup> <b>Y01</b> <sup>11</sup> Wouting screw         Measuring point descriptor, max. 16 characters <b>Y17</b> <sup>21</sup> Y0100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω <b>U02</b> <sup>3</sup> P1100 (IEC) 3-wire <b>U03</b> <sup>3</sup> P1100 (IEC) 4-wire <b>U04</b> <sup>3</sup> Specify in plain text <b>Y09</b> <sup>41</sup> Fail-safe value 3.6 mA (instead of 22.8 mA) <b>U36</b> <sup>21</sup> Accessories       Article No.         Modem for SITRANS TH100, TH200 TR200 * and TF with TH200 incl. SIPROM T parameterization software       Article No.         Mith USD for temperature measuring instru- ▶       A5E00364512	Without explosion protection	7NG3211-0NN00		
· to FM (c_FMUS)       > * 7NG3211-0BN00         Further designs       Order code         Add '-Z' to Article No. and specify Order code(s)       Internal diameter Center hole 6.3 (0.25)         Test report (5 measuring points)       C11         Customer-specific programming       Add '-Z' to Article No. and specify Order code(s)         Measuring range to be set       Y01 <sup>1</sup> )         Specify in plain text (max. 5 digits):       Y01 <sup>1</sup> )         Y010 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U02 <sup>3</sup> )         PI100 (IEC) 3-wire       U03 <sup>3</sup> )         PI100 (IEC) 4-wire       U04 <sup>3</sup> )         Specify in plain text       U36 <sup>3</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200         and TF with TH200 incl. SIPROM T parameterization software         With USB connection         MithiDVD for temperature measuring instru- Image: Astronameterization software	type of protection and for zone 2			
Contraction (Control (Contre) (Contre))))			11 (1 73) Internal diameter	
Add *-Z to Article No. and specify Order code(s)       Mounting screw         Test report (5 measuring points)       C11         Customer-specific programming       Add *-Z to Article No. and specify Order code(s)       Mounting screw         Measuring range to be set       Y01 <sup>1</sup> )         Specify in plain text (max. 5 digits):       Y01 <sup>1</sup> )         Y01 to °C, °F       Y23 <sup>2</sup> )         Measuring point descriptor, max. 16 characters       Y17 <sup>2</sup> )         Pt100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U02 <sup>3</sup> )         Pt100 (IEC) 3-wire       U03 <sup>3</sup> )         Pt100 (IEC) 4-wire       U04 <sup>3</sup> )         Special differing customer-specific programming, specify in plain text       Y09 <sup>4</sup> )         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       Article No.         With USB connection       AsE00364512				
Test report (5 measuring points)       C11         Customer-specific programming       Mdx25         Add *-Z' to Article No. and specify Order code(s)       Y01 <sup>1</sup> )         Measuring range to be set       Y01 <sup>1</sup> )         Specify in plain text (max. 5 digits):       Y01 <sup>1</sup> )         Y01: to °C, °F       Y17 <sup>2</sup> )         Measuring point descriptor, max. 16 characters       Y17 <sup>2</sup> )         Y23 <sup>2</sup> )       Y16 <sup>2</sup> )         P1100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U02 <sup>3</sup> )         P1100 (IEC) 3-wire       U03 <sup>3</sup> )         P1100 (IEC) 4-wire       U04 <sup>3</sup> )         Special differing customer-specific programming, specify in plain text       U36 <sup>2</sup> )         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       AsE00364512         Mith USB connection       AsE00364512		Order code	420mA	
Note of the point (or inducting point) $\mathbf{V}$ if $\mathbf{V}$ Customer-specific programming Add *-Z' to Article No. and specify Order code(s)Y01 <sup>1</sup> )Measuring range to be set Specify in plain text (max. 5 digits): Y01: to °C, °FY01 <sup>1</sup> )Measuring point descriptor, max. 8 characters HersY17 <sup>2</sup> ) Y23 <sup>2</sup> )Y100 (IEC) 2-wire, R <sub>L</sub> = 0 $\Omega$ U02 <sup>3</sup> )Pt100 (IEC) 2-wire, R <sub>L</sub> = 0 $\Omega$ U02 <sup>3</sup> )Pt100 (IEC) 3-wireU03 <sup>3</sup> )Pt100 (IEC) 4-wireU04 <sup>3</sup> )Special differing customer-specific programming, specify in plain textU36 <sup>2</sup> )AccessoriesArticle No.Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software7NG3092-8KUMiniDVD for temperature measuring instru- $\blacktriangleright$ A5E00364512	Add "-Z" to Article No. and specify Order code(s)		Mounting screw	
Add *-Z' to Article No. and specify Order code(s)         Measuring range to be set         Specify in plain text (max. 5 digits):         Y01 <sup>1)</sup> Y01 <sup>1)</sup> Y01 <sup>1)</sup> Weasuring point no. (TAG), max. 8 characters         Y17 <sup>2)</sup> Measuring point descriptor, max. 16 characters         Y23 <sup>2)</sup> Pt100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω         Pt100 (IEC) 3-wire         Pt100 (IEC) 4-wire         Special differing customer-specific programming, specify in plain text         Fail-safe value 3.6 mA (instead of 22,8 mA)         Accessories         Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software         With USB connection         MiniDVD for temperature measuring instru- ▶         A5E00364512	Test report (5 measuring points)	C11		
Specify in plain text (max. 5 digits):       Y172)         Y01: to °C, °F       Measuring point no. (TAG), max. 8 characters       Y172)         Measuring point descriptor, max. 16 characters       Y232)         Pt100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U023)         Pt100 (IEC) 3-wire       U033)         Pt100 (IEC) 4-wire       U043)         Special differing customer-specific programming, specify in plain text       Y094)         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       YNG3092-8KU         With USB connection       A5E00364512				
Measuring point descriptor, max. 16 characters       Y23 <sup>2</sup> )         Pt100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U02 <sup>3</sup> )         Pt100 (IEC) 3-wire       U03 <sup>3</sup> )         Pt100 (IEC) 4-wire       U04 <sup>3</sup> )         Special differing customer-specific programming, specify in plain text       Y09 <sup>4</sup> )         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       YNG3092-8KU         With USB connection       A5E00364512	Specify in plain text (max. 5 digits):	Y01 <sup>1)</sup>	1(+) and 2(-)Auxiliary power supply U_aux, output current I_out3, 4, 5 and 6Pt100 sensor (for connection, see	
Measuring point descriptor, max. 16 characters       Y23 <sup>2</sup> )         Pt100 (IEC) 2-wire, R <sub>L</sub> = 0 Ω       U02 <sup>3</sup> )         Pt100 (IEC) 3-wire       U03 <sup>3</sup> )         Pt100 (IEC) 4-wire       U04 <sup>3</sup> )         Special differing customer-specific programming, specify in plain text       Y09 <sup>4</sup> )         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       7NG3092-8KU         With USB connection       A5E00364512	Measuring point no. (TAG), max. 8 characters	Y17 <sup>2)</sup>		
Pt100 (IEC) 2-wire, RL = 0 ΩU023Pt100 (IEC) 3-wireU033)Pt100 (IEC) 4-wireU043)Special differing customer-specific programming, specify in plain textY094)Fail-safe value 3.6 mA (instead of 22,8 mA)U362)AccessoriesArticle No.Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software7NG3092-8KUWith USB connectionAsEE00364512		Y23 <sup>2)</sup>		
Pt100 (IEC) 3-wire       U03 <sup>33</sup> Pt100 (IEC) 4-wire       U04 <sup>3</sup> )         Special differing customer-specific programming, specify in plain text       Y09 <sup>4</sup> )         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       7NG3092-8KU         With USB connection       AsE00364512	Pt100 (IEC) 2-wire, $R_L = 0 \Omega$	U02 <sup>3)</sup>		
Special differing customer-specific programming, specify in plain text       Y09 <sup>4</sup> )       SITRANS TH100, dimensions in mm (inch)         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )       Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       Article No.         MiniDVD for temperature measuring instru- >       A5E00364512       A5E00364512	Pt100 (IEC) 3-wire	U03 <sup>3)</sup>		
ming, specify in plain text       Image: Specify in plain text         Fail-safe value 3.6 mA (instead of 22,8 mA)       U36 <sup>2</sup> )         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       7NG3092-8KU         With USB connection       Aste00364512	Pt100 (IEC) 4-wire	U04 <sup>3)</sup>		
Fail-sate value 3.6 mA (instead of 22,8 mA)       U36*/         Accessories       Article No.         Modem for SITRANS TH100, TH200, TR200 and TF with TH200 incl. SIPROM T parameterization software       7NG3092-8KU         With USB connection       AsE00364512	Special differing customer-specific program- ming, specify in plain text	Y09 <sup>4)</sup>		
Modem for SITRANS TH100, TH200, TR200       *         and TF with TH200 incl. SIPROM T parameterization software       *         With USB connection       *         MiniDVD for temperature measuring instru-       *         A5E00364512       *	Fail-safe value 3.6 mA (instead of 22,8 mA)	U36 <sup>2)</sup>	Mounting on DIN rail	
and TF with TH200 incl. SIPROM T parameteri- zation software With USB connection MiniDVD for temperature measuring instru- > A5E00364512	Accessories	Article No.		
	and TF with TH200 incl. SIPROM T parameteri- zation software			
ilients	MiniDVD for temperature measuring instru-			
With documentation in German, English, French, Spanish, Italian, Portuguese and SIPROM T parameterization software	French, Spanish, Italian, Portuguese and			
DIN rail adapters for head transmitters > 7NG3092-8KA (Quantity delivered: 5 units)		7NG3092-8KA		

7NG3092-8KC

SITRANS TH100, mounting of transmitter on DIN rail



DIN rail adaptor, dimensions in mm (inch)

<sup>1)</sup> For customer-specific programming for RTD and TC, the start value and the end value of the required measuring span must be specified here. <sup>2)</sup> For this selection, Y01 or Y09 must also be selected.

• We can offer shorter delivery times for configurations designated with the Quick Ship Symbol . For details see page 9/5 in the appendix.

<sup>3)</sup> For this selection, Y01 must also be selected.

4-wire, 150 mm, for sensor connections when using head transmitters in the high hinged

- <sup>4)</sup> For customer-specific programming, for example mV and ohm, the start value and the end value of the required measuring span and the unit must be entered here.
- Supply units see Chapter "Supplementary Components".

Ordering example

Connecting cable

cover (set with 5 units)

Available ex stock.

7NG3211-0NN00-Z Y01+Y23+U03 Y01: -10 ... +100 °C Y23: TICA1234HEAT Factory setting: • Pt100 (IEC 751) with 3-wire circuit

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

Transmitters for mounting in sensor head

SITRANS TH100 two-wire system (Pt100)

# Pt100 Pt100 Two-wire system (parameterizable line Three-wire system resistance) U<sub>aux</sub> 0 0-68 ..20m/ 0 /= SIEMENS Pt100 Four-wire system Connection of auxiliary power supply ( $U_{aux}$ ) SITRANS TH100, sensor connection assignment

# Schematics