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You can download all instructions, catalogs and certificates for SITRANS T free of charge at the following Internet address:
www.usa.siemens.com/temperature

Temperature Measurement

Product overview

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Overview

Type	Description	Page	Software for parameterization
SITRANS TS temperature sensors			
	<p>SITRANS TS500 Temperature Sensor Assemblies Include thermowell, sensor, head and transmitters</p> <ul style="list-style-type: none"> • Integrated temperature assemblies • Include thermowell, sensor, head and transmitter in single model number. • Various options include configuration, calibration and certificates. 	2/6	-
Application			
Mounting of transmitter with Ex protection		Page	Software for parameterization
	Transmitter	Sensor	
Compact and head transmitters			
	<p>SITRANS TH100 Slim For temperature measurement in combination with Pt100 compact resistance thermometers</p>	-	2/24
	<p>SITRANS TH100 • 4 to 20 mA • Transmitters for Pt100</p>	Zone 2, zone 1, zone 0, zone 21, zone 20, DIV 1, DIV 2	2/27
	<p>SITRANS TH200 Transmitters for connection to resistance thermometers, resistance-based sensors, thermocouples and DC voltages up to 1.1 V • 4 to 20 mA • Universal</p>	Zone 2, zone 1, zone 0, zone 21, zone 20, DIV 1, DIV 2	2/31
	<p>SITRANS TH300 Transmitters for connection to resistance thermometers, resistance-based sensors, thermocouples and DC voltages up to 1.1 V • 4 to 20 mA • Universal • HART</p>	Zone 2, zone 1, zone 0, zone 21, zone 20, DIV 1, DIV 2	2/38
	<p>SITRANS TH400 Transmitters for connection to resistance thermometers, resistance-based sensors, thermocouples and DC voltages • Fieldbus transmitters • PROFIBUS PA • FOUNDATION fieldbus</p>	Zone 2, zone 1, zone 0, zone 21, zone 20, DIV 1, DIV 2	2/45

Temperature Measurement

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Application	Mounting of transmitter with Ex protection		Page	Software for parameterization
	Transmitter	Sensor		
 <p>SITRANS TH320 2-wire head transmitter with and without HART communications interface. With 1 input for connection to resistance thermometers, linear resistors, potentiometers, thermocouples, and DC voltages up to 1.7 V</p> <ul style="list-style-type: none"> • 4 to 20 mA • HART 7 • Universal • SIL2/3 according to IEC 61508 	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	2/51	SIMATIC PDM
 <p>SITRANS TH420 Transmitters with 2 inputs for connection to resistance thermometers, linear resistors, potentiometers, thermocouples and DC voltages up to 1.7 V</p> <ul style="list-style-type: none"> • Drift detection function • HART 7 • Universal • SIL2/3 according to IEC 61508 • High input availability 	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	2/60	SIMATIC PDM
Rail transmitters				
 <p>SITRANS TR200</p> <ul style="list-style-type: none"> • 4 to 20 mA • Universal 	Zone 2, zone 1, zone 0, zone 21	Zone 2, zone 1, zone 0, zone 21, zone 20	2/70	SIPROM T
 <p>SITRANS TR300</p> <ul style="list-style-type: none"> • 4 to 20 mA • Universal • HART 	Zone 2, zone 1, zone 0, zone 21	Zone 2, zone 1, zone 0, zone 21, zone 20	2/77	SIMATIC PDM
 <p>SITRANS TR320 2-wire rail transmitter with and without HART communications interface. With 1 input for connection to resistance thermometers, linear resistors, potentiometers, thermocouples, and DC voltages up to 1.7 V</p> <ul style="list-style-type: none"> • 4 to 20 mA • HART 7 • Universal • SIL2/3 according to IEC 61508 	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	2/84	SIMATIC PDM
 <p>SITRANS TR420 Transmitters with 2 inputs for connection to resistance thermometers, linear resistors, potentiometers, thermocouples and DC voltages up to 1.7 V</p> <ul style="list-style-type: none"> • Drift detection function • HART 7 • Universal • SIL2/3 according to IEC 61508 • High input availability 	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	Zone 2, zone 1, zone 0, zone 21, zone 20, M1, DIV 1, DIV 2	2/93	SIMATIC PDM

Temperature Measurement



Product overview

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	Application	Mounting of transmitter with Ex protection		Page	Software for parameterization
		Transmitter	Sensor		
Field transmitters					
	<p>SITRANS TF</p> <p>Transmitters for connection to resistance thermometers, resistance-based sensors, thermocouples and DC voltages up to 1.1 V</p> <ul style="list-style-type: none"> • In field enclosure for heavy industrial use • 4 to 20 mA • HART 5 • Universal 	Zone 2, zone 1, zone 21, DIV 1, DIV 2	Zone 2, zone 1, zone 0	2/103	Depending on the installed TH200/TH300 transmitter
	<p>SITRANS TF</p> <p>Fieldbus transmitters for connection to resistance thermometers, resistance-based sensors, thermocouples and DC voltages up to 0.8 V</p> <ul style="list-style-type: none"> • In field enclosure for heavy industrial use • PROFIBUS PA • FOUNDATION fieldbus 	Zone 2, zone 1, zone 21, DIV 1, DIV 2	Zone 2, zone 1, zone 0	2/112	SIMATIC PDM for PROFIBUS PA
	<p>SITRANS TF320 NEW</p> <p>Transmitters for connection to resistance thermometers, resistance-based sensors, thermocouples and DC voltages up to 1.7 V</p> <ul style="list-style-type: none"> • In field enclosure for heavy industrial use • 4 to 20 mA • HART 7 • Universal • SIL2/3 according to IEC 61508 	Zone 2, Zone 1, Zone 21, DIV 1, DIV 2	Zone 2, Zone 1, Zone 21, DIV 1, DIV 2	2/119	Local operation with buttons. SIMATIC PDM local with HART modem or SIPROM T (depending on SITRANS TH320 type used)
	<p>SITRANS TF420 NEW</p> <p>Transmitters for connection to resistance thermometers, resistance-based sensors, thermocouples and DC voltages up to 1.7 V</p> <ul style="list-style-type: none"> • In field enclosure for heavy industrial use • HART 7 • Universal • SIL2/3 according to IEC 61508 • High input availability 	Zone 2, Zone 1, Zone 21, DIV 1, DIV 2	Zone 2, Zone 1, Zone 21, DIV 1, DIV 2	2/132	Local operation with buttons. SIMATIC PDM locally with HART modem.
Field indicator for 4 to 20 mA signals					
	<p>SITRANS TF</p> <p>Field indicator for 4 to 20 mA signals</p> <p>Display of units can be user-defined</p>	Zone 2, zone 1, zone 21, DIV 1, DIV 2	-	2/103	-

Temperature Measurement

Product overview

Application	Mounting of transmitter with Ex protection		Page	Software for parameterization
	Transmitter	Sensor		
Fiber-optic temperature measurement				
	SITRANS TO500 Multipoint temperature transmitter for measuring temperatures and temperature profiles with fiber-optic multipoint measuring lances.	Zone 0, Zone 20	2/147	Via Ethernet with the supplied parameter assignment software
	SITRANS TO multipoint measuring lance For measuring temperatures and temperature profiles using fiber-optic Fiber Bragg Grating (FBG).		2/150	

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Supplied product documentation on DVD and safety instructions



The scope of delivery of the Siemens products for process instrumentation includes a multilingual instruction sheet with **safety instructions** as well as a uniform **mini DVD – Process Instrumentation and Weighing Systems**.

This DVD contains the most important manuals and certificates for the Siemens process instrumentation and weighing technology portfolio. The delivery may also contain product-specific or order-specific printed materials.

For additional information, refer to the Annex on page 10/3.

บริษัท เกรทโอเรียนเต็ลเทรดดิ้ง จำกัด
 เลขที่ 1049 ถนนร่วมธรรม
 ตำบลค้อหงส์ อำเภอหาดใหญ่
 จังหวัดสงขลา 90110
 074-300212-4



www.gotautomations.com
 GreatOrientalTrading



095-078-7525



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@gotrading