

Temperature Measurement Accessories

Further accessories for assembly, connection and transmitter configuration

Transmitter configuration for SITRANS TH / TR / TF and SITRANS TS

Selection and Ordering data

Article No.

Modem for SITRANS TH100, TH200, TR200 and TF, with TH200 including SITPROM T parameter assignment software; 4 ... 20 mA

- with USB interface

HART modem for all HART devices including SITRANS TH300, TH 320, TH 420, TR 300, TR 320, TR 420, TF in HART

- with USB interface

SIMATIC PDM parameter assignment software for SITRANS TH300, TR300, TH400, TF in HART / PROFIBUS PA / FOUNDATION Fieldbus

IE/PB LINK PN IO

7NG3092-8KN

7MF4997-1DB

siehe Kap. 8

siehe Kap. 7

Connection and mounting accessories for field transmitter SITRANS TF

Selection and Ordering data

Article No.

Mounting bracket and fastening parts

- made of steel for 7NG313.-..B.. and 7MP1110

7MF4997-1AC

- made of steel for 7NG313.-..C..

7MF4997-1AB

- made of stainless steel 304 for 7NG313.-..B.. and 7MP1110

7MF4997-1AJ

- made of stainless steel 304 for 7NG313.-..C..

7MF4997-1AH

- made of stainless steel 316L for 7NG313.-..B..

7MF4997-1AQ

- made of stainless steel 316L for 7NG313.-..C..

7MF4997-1AP

Digital indicator for SITRANS TF¹⁾

7MF4997-1BS

Connection board for SITRANS TF

A5E02391790

Lithium battery for SITRANS TF280/P280

7MP1990-0AA00

Cover, die-cast aluminium, without inspection window

7MF4997-1BB

Cover, die-cast aluminium, with inspection window

7MF4997-1BE

Cable glands and adapters for SITRANS TF and SITRANS TS

Selection and Ordering data

Article No.

M20 x 1.5 nickel-plated brass; with Ex-d approval

7MF4997-2FR

½-NPT nickel-plated brass; with Ex-d approval

7MF4997-2FU

CAPRI screw connection, M20 x 1.5 nickel-plated brass; with Ex-d approval

7MF4997-2LA

CAPRI screw connection, M20 x 1.5 stainless steel; with Ex-d approval

7MF4997-2LB

CAPRI screw connection ½-14 NPT nickel-plated brass; with Ex-d approval

7MF4997-2LC

CAPRI screw connection ½-14 NPT stainless steel; with Ex-d approval

7MF4997-2LD

Thread adapter M20x1.5 (male thread) to ½-14 NPT (female thread)

7MP1990-0BA00

Thread adapter M20x1.5 (male thread) to G½ (female thread)

7MP1990-0BB00

Lightning protection for SITRANS TF (SITRANS TS on request)

Selection and Ordering data

Article No.

Transient protector M20 x 1.5 (lightning protection)

7MF4997-2DU

Transient protector ½-14 NPT (lightning protection)

7MF4997-2DV

Connectors for SITRANS TF and SITRANS TS

Selection and Ordering data

Article No.

Han 7D device plug made of plastic

7MF4997-2FB

Han 7D device plug made of metal

7MF4997-2FC

M12 socket angled for 4 ... 6 mm cable diameter, -25 ... +85 °C (-13 ... 185 °F)

3RK1902-4CA00-4AA0

Indicator for SITRANS TS500

Selection and Ordering data

Article No.

Digital indicator loop-powered HW05 for SITRANS TS500

A5E33119275

Connection and mounting accessories for SITRANS TH

Selection and Ordering data

Article No.

Mounting rail adapter for head-mounted transmitters (delivery quantity: 5 units)

7NG3092-8KA

Connecting cable

7NG3092-8KC

4-wire, 150 mm, for the sensor connection for head transmitters in the high hinged lid (set of 5)

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

Measurement inserts for SITRANS TS500

Measurement inserts: see SITRANS TSinsert page 2/101.

Further accessories for assembly, connection and transmitter configuration

Connection heads Type B for SITRANS TS500 and accessory resistance thermometer

Selection and Ordering data	Article No
Degree of protection IP54	
• Connection head type: similar to BA0; aluminium; Flange cover	7MC1907-1BA
• Connection head type: Similar to BM0; plastic; screw cover	7MC1907-1BK
Degree of protection IP65	
• Connection head type: Similar to BB0; aluminium; small hinged lid	7MC1907-1BF
• Connection head type: Similar to BC0; aluminium; high hinged lid	7MC1907-1BL
• Connection head type: B-VA, stainless steel	7MC1907-1BV
• Quick-release clamp for connection heads BB0, BC0, degree of protection of connection head reduced to IP20, weight: 0.02 kg (0.04 lb)	7MC1907-1BS

Welded-in protective tubes to DIN 43772 for SITRANS TS500

Selection and Ordering data	Article No.		
Welding form 4			
• Tapered shank with cylindrical welding stub			
• For measuring insert tube with 6 mm (0.24 inch) OD			
• OD female thread M18 x 1.5			
Up to 540 °C (1004 °F)			
Protective tube to DIN 43772, form 4 made of 13 CrMo 44, mat. No. 1.7335			
Cone length C mm (inch)	Protective tube length L mm (inch)	Weight mm (inch)	
• 65 (2.56)	140 (5.51)	0.3 (0.66)	7MC1905-1GA 7MC1905-2GA 7MC1905-3GA 7MC1905-4GA
• 65 (2.56)	200 (7.87)	0.5 (1.1)	
• 125 (4.92)	200 (7.87)	0.5 (1.1)	
• 125 (4.92)	260 (10.24)	0.6 (1.32)	
Up to 550 °C (1022 °F)			
Protective tube to DIN 43772, form 4 made of 6 CrNiMoTi 17122, mat. No. 1.4571			
Cone length C mm (inch)	Protective tube length L mm (inch)	Weight kg (lb)	
• 65 (2.56)	140 (5.51)	0.3 (0.66)	7MC1905-1DA 7MC1905-2DA 7MC1905-3DA 7MC1905-4DA
• 65 (2.56)	200 (7.87)	0.5 (1.1)	
• 125 (4.92)	200 (7.87)	0.5 (1.1)	
• 125 (4.92)	260 (10.24)	0.6 (1.32)	

Extension tube for SITRANS TS500

Selection and Ordering data	Article No.			
Neck tube for high-pressure screw-in resistance thermometer made of stainless steel, mat. No. 1.4571, with thread at both ends, for measuring insert tube with 6 mm (0.24 inch) OD				
Neck tube length mm (inch)	Total length of the resistance thermometer, without connection head mm (inch)	Protective tube length mm (inch)	Weight kg (lb)	
• 135 (5.31)	395 (15.55)	260 (10.24)	0.14 (0.31)	7MC1906-1AA 7MC1906-2AA 7MC1906-3AA 7MC1906-4AA 7MC1906-5AA
• 165 (6.50)	305/365 (12.01/14.37)	140/200 (5.51/7.87)	0.15 (0.33)	
• 195 (7.68)	395 (15.55)	200 (7.87)	0.18 (0.40)	
• 225 (8.86)	365 (14.37)	140 (5.51)	0.20 (0.44)	
• 255 (10.04)	395 (15.55)	140 (5.51)	0.22 (0.49)	

Temperature Measurement

Further accessories for assembly, connection and transmitter configuration

Connection heads Type A and accessory for straight thermocouple

Selection and Ordering data	Article No.
Metallic protective tubes for straight thermocouple elements according to DIN 43733 X 10 CrAl 24, material No. 1.4762 Ø 22 mm x 2 mm (Ø 0.87 inch x 0.08 inch), 0.55 ... 1.10 kg (1.21 ... 2.42 lb), dished Nominal length in mm (inch): Protective tube length in mm (inch): • 500 (19.7) 520 (20.5) • 710 (28.0) 730 (28.7) • 1000 (39.4) 1020 (40.2)	7MC2900-1DA 7MC2900-2DA 7MC2900-3DA
X 10 CrAl 24, material No. 1.4749 Ø 26 mm x 4 mm (Ø 1.02 inch x 0.16 inch), 1.25 ... 2.20 kg (2.76 ... 4.85 lb), dished Nominal length in mm (inch): Protective tube length in mm (inch): • 500 (19.7) 520 (20.5) • 710 (28.0) 730 (28.7) • 1000 (39.4) 1020 (40.2)	7MC2900-1EC 7MC2900-2EC 7MC2900-3EC
X 15 CrNiSi 25 20, material No. 1.4841 Ø 22 mm x 2 mm (Ø 0.87 inch x 0.08 inch), 1.05 kg (2.31 lb), dished Nominal length in mm (inch): Protective tube length in mm (inch): • 1000 (39.4) 1020 (40.2)	7MC2900-3FA
CrAl 205 (Megapyr), material No. 1.4767 Ø 22 mm x 2 mm (Ø 0.87 inch x 0.05 inch), 0.55 ... 1.10 kg (1.21 ... 2.42 lb) Nominal length in mm (inch): Protective tube length in mm (inch): • 500 (19.7) 520 (20.5) • 710 (28.0) 730 (28.7) • 1000 (39.4) 1020 (40.2)	7MC2900-1HA 7MC2900-2HA 7MC2900-3HA

Selection and Ordering data	Article No.
Thermocouples elements for straight thermocouple according to DIN 43733 Base-metal thermocouple with insulating beads Wire diameter 3 mm (0.12 inch) Ni Cr/Ni, to 1000 °C (maximal 1300 °C), (to 1832 °F (max. 2372 °F)) 0.55 ... 2.10 kg (1.21 ... 4.63 lb) Nominal length L1 in mm (inch): Thermocouple length L2 in mm (inch): • 500 (19.7) 540 (21.3) • 710 (28.0) 750 (29.5) • 1000 (39.4) 1040 (40.9)	7MC2903-1CA 7MC2903-2CA 7MC2903-3CA

Connection heads
 Connection head, Type A (without terminal block and terminals) for protective tube diameter (bore = protective tube diameter +0.5 mm (0.02 inch))

Selection and Ordering data	Article No.
Connection head, Type A, (without terminal block and terminals) 1 Cable inlet, degree of protection IP53, 0.35 kg (0.77 lb)	
Cast light alloy fastener, unscrewable for protective tube diameter in mm (inch) (bore = protective tube diam. +0.5 mm) (0.02 inch): • 22 (0.87) • 26 (1.02)	7MC2905-1AA 7MC2905-1BA
Cast light alloy high hinged cover for protective tube diameter in mm (inch) (bore = protective tube diam. +0.5 mm) (0.02 inch): • 22 (0.87) • 26 (1.02)	7MC2905-4AA 7MC2905-4BA

Installation accessories for connection heads

- Terminal block
- Terminal
- Set of gaskets
- Set of washers
- Mounting flange
- Threaded sleeve

Selection and Ordering data	Article No.
Mounting accessories Terminal block without terminals for base-metal thermocouples; 0.06 kg (0.13 lb)	7MC2998-1AA
Terminal for base-metal thermocouples; 0.01 kg (0.02 lb)	7MC2998-1BA
Set of gaskets (100 off) for the connection head cover; 0.01 kg (0.02 lb)	7MC2998-1CA
Set of washers (100 off) for the terminal block; 0.01 kg (0.02 lb)	7MC2998-1CB
Mounting flange, adjustable; made of GTW • for protective tube outer diameters 22 mm (0.87 inch); 0.35 kg (0.77 lb) • for protective tube outer diameters 26 mm (1.02 inch); 0.32 kg (0.71 lb)	7MC2998-2CB 7MC2998-2CC
Threaded sleeve Gas-tight up to 1 bar (14.5 psi), adjustable, material No. 1.0718, with gasket; 0.40 kg (0.88 lb) • for protective tube outer diameters 22 mm (0.87 inch), G1 • for protective tube outer diameters 26 mm (1.02 inch), G1	7MC2998-2DB 7MC2998-2DC