



Accessories

S+S added value –
smart supplements, always ahead

Take advantage of our comprehensive range of accessories, which can be used together with our entire product portfolio. This keeps you always a step ahead, and best of all: If you buy and stock up, you will also save on the price.

Our standard devices normally differ in type of design and sensors. Depending on the application, you can install S+S accessories directly on site.





IMMERSION SLEEVES & ACCESSORIES



Immersion sleeves

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Special accessories for plug-in connectors

Connection accessories, A-coded, 5-pin or 12-pin → [Online shop](#)
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THERMASGARD® TH 08

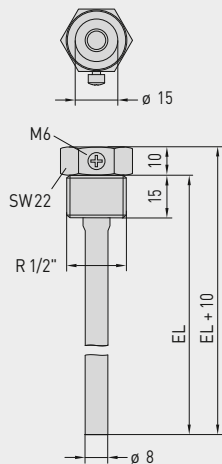
Immersion sleeves made of stainless steel or brass,
for temperature sensors and measuring transducers

TF 43, TM 43, TF 65, TM 65, TM 65-Modbus (Tyr 1)



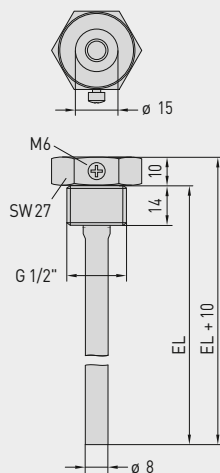
S+S REGELTECHNIK

Dimensional drawing
[mm]

TH 08-MS-G xx**TH 08-MS-G xx**

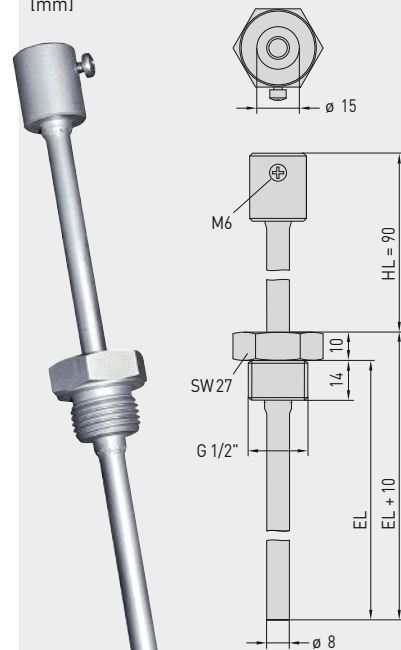
Immersion sleeve,
polished brass
thread-sealing, conical,
according to DIN 10226

Dimensional drawing
[mm]

TH 08-VA xx**TH 08-VA xx**

Immersion sleeve,
stainless steel V4A (1.4571)
flat sealing, cylindrical,
according to DIN 228

Dimensional drawing
[mm]

TH 08-VA xx/90**TH 08-VA xx/90**

Immersion sleeve,
stainless steel V4A (1.4571)
with neck tube
flat sealing, cylindrical,
according to DIN 228

THERMASGARD® TH 08 Immersion sleeve Ø 8 mm

Type / WG01	p _{max} (static)	T _{max}	Inserted length (EL)	Item No.
TH 08-MS-G xx	polished brass			Ø 8 x 0.75 mm
TH08-MS-G 50MM	10 bar	+150 °C	50 mm	7100-0017-0010-132
TH08-MS-G 100MM	10 bar	+150 °C	100 mm	7100-0017-0020-132
TH08-MS-G 150MM	10 bar	+150 °C	150 mm	7100-0017-0030-132
TH08-MS-G 200MM	10 bar	+150 °C	200 mm	7100-0017-0040-132
TH08-MS-G 250MM	10 bar	+150 °C	250 mm	7100-0017-0050-132
TH08-MS-G 300MM	10 bar	+150 °C	300 mm	7100-0017-0060-132
TH08-MS-G 350MM	10 bar	+150 °C	350 mm	7100-0017-0070-132
TH08-MS-G 400MM	10 bar	+150 °C	400 mm	7100-0017-0080-132
TH 08-VA xx	Stainless steel V4A (1.4571)			Ø 8 x 0.75 mm
TH08-VA 50MM	40 bar	+600 °C	50 mm	7100-0012-0010-132
TH08-VA 100MM	40 bar	+600 °C	100 mm	7100-0012-0020-132
TH08-VA 150MM	40 bar	+600 °C	150 mm	7100-0012-0030-132
TH08-VA 200MM	40 bar	+600 °C	200 mm	7100-0012-0040-132
TH08-VA 250MM	40 bar	+600 °C	250 mm	7100-0012-0050-132
TH08-VA 300MM	40 bar	+600 °C	300 mm	7100-0012-0060-132
TH08-VA 350MM	40 bar	+600 °C	350 mm	7100-0012-0070-132
TH08-VA 400MM	40 bar	+600 °C	400 mm	7100-0012-0080-132
TH 08-VA xx/90	Stainless steel V4A (1.4571), with neck tube (90mm)			Ø 8 x 0.75 mm
TH08-VA 50/90MM	40 bar	+600 °C	50 mm	7100-0012-0012-132
TH08-VA 100/90MM	40 bar	+600 °C	100 mm	7100-0012-0022-132
TH08-VA 150/90MM	40 bar	+600 °C	150 mm	7100-0012-0032-132
TH08-VA 200/90MM	40 bar	+600 °C	200 mm	7100-0012-0042-132
TH08-VA 250/90MM	40 bar	+600 °C	250 mm	7100-0012-0052-132
TH08-VA 300/90MM	40 bar	+600 °C	300 mm	7100-0012-0062-132

Note: Inner diameter of socket 15.0 mm

INSTRUCTIONS FOR PLANNING AND INSTALLATION

The approaching flow causes the protective tube to vibrate.

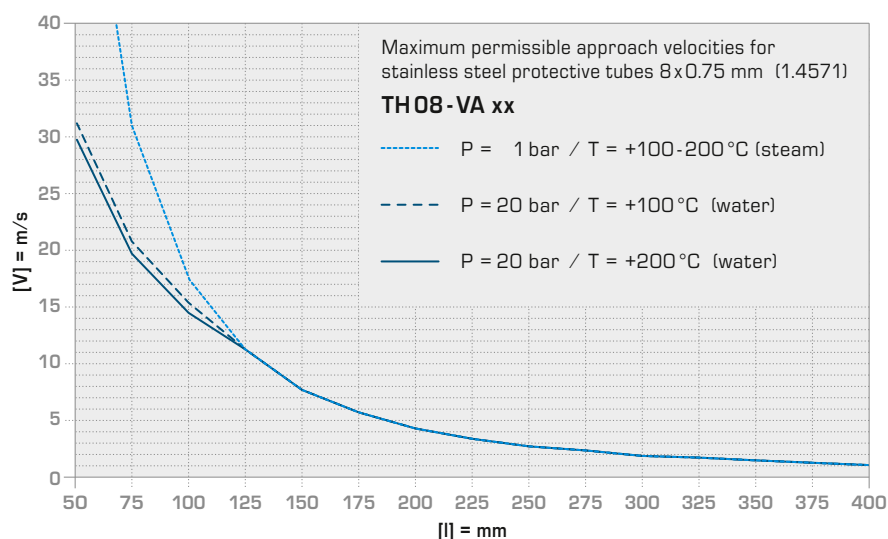
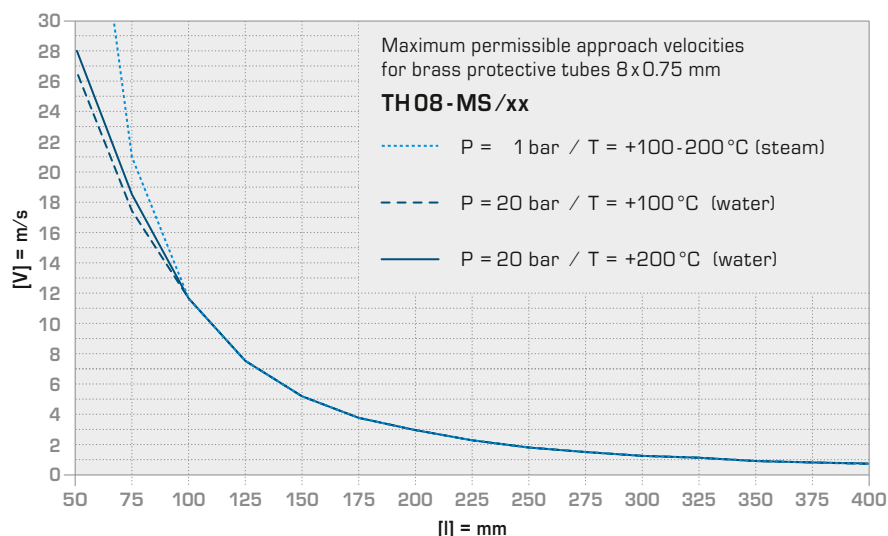
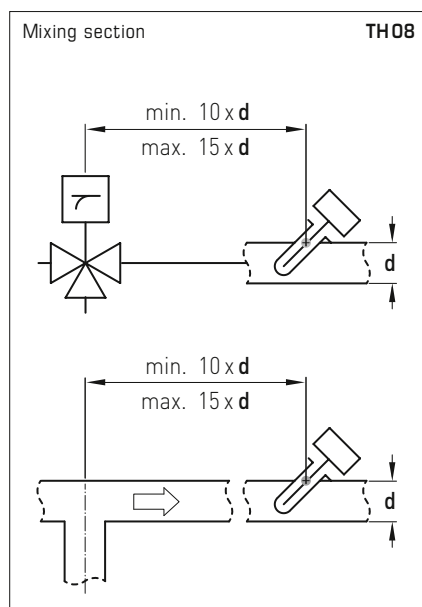
If the specified approach velocity is exceeded even by a marginal amount, a negative impact on the protective tube's service life may result (material fatigue).

Please observe permissible approach velocities for stainless steel protective tubes (see graph **TH08-VA**) as well as for brass protective tubes (see graph **TH08-MS**).

Discharge of gases and pressure surges must be avoided as they have a negative influence on the service life and may damage the protective tubes irreparably.

MIXING SECTION

After the mixing of water flows of different temperatures, the issue of temperature stratification means that an adequate distance to the sensor must be observed.

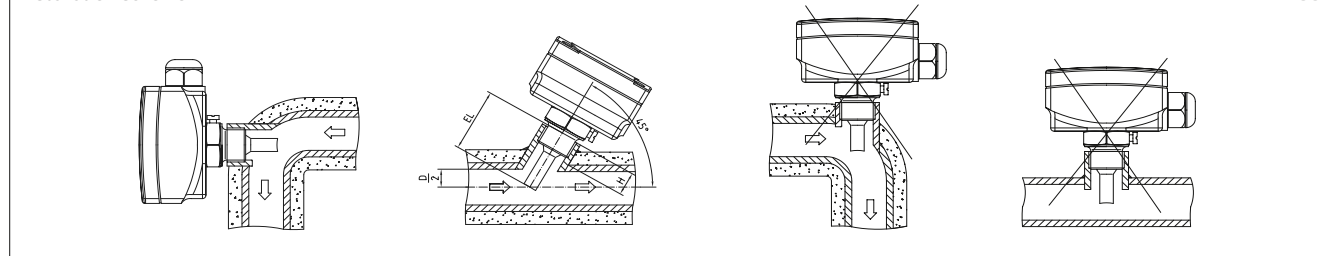


BRASS OR STAINLESS STEEL

Uncompromising quality and safety are also paramount in the design of the accessory from S+S. This is why our metal immersion sleeves for duct sensors are made using either brass or stainless steel. Brass is an alloy consisting mainly of copper and zinc, which give it mechanical strength, heat resistance and thermal conductivity, among other characteristics. This is the material of choice for most standard applications.

Highest protection against corrosion is provided by immersion sleeves made of stainless steel. Among the available qualities, we chose VA 1.4571 or AISI 316 Ti, a high-grade austenite specialty combining chromium, nickel and molybdenum with an extra titanium content. The alloy has a proven fit particularly in the design of chemical process equipment and technical instruments as well as in waste gas and water treatment. Its corrosion resistance also includes chlorides or salts and more aggressive acids, such as hydrochloric acid (HCl).

Installation scheme



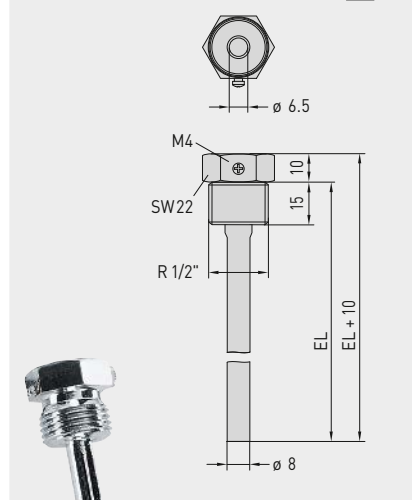
THERMASGARD® TH

Immersion sleeves made of stainless steel or brass, nickel-plated/galvanised, for temperature sensors and measuring transducers TF 54/TM 54 (form B)



S+S REGELTECHNIK

Dimensional drawing TH-MS/xx

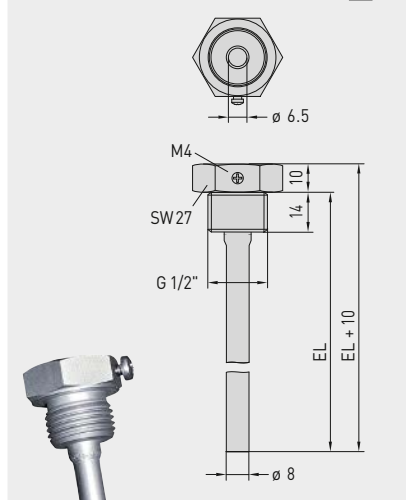


TH-MS/xx

Immersion sleeve,
nickel-plated brass /
galvanised

thread-sealing, conical,
according to DIN 10226

Dimensional drawing TH-VA/xx

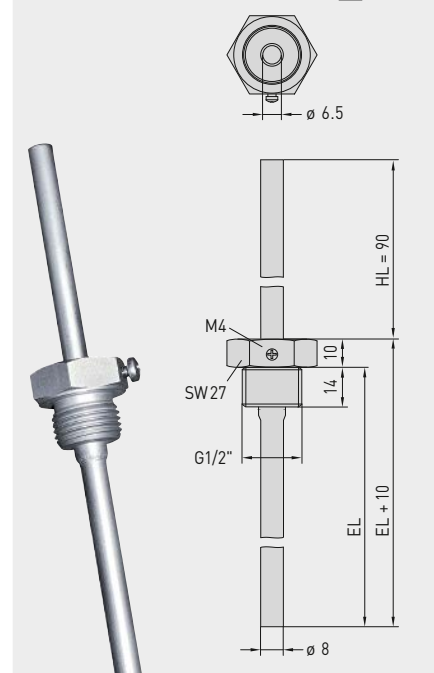


TH-VA/xx

Immersion sleeve,
stainless steel V4A (1.4571)

flat sealing, cylindrical,
according to DIN 228

Dimensional drawing TH-VA/xx/90



TH-VA/xx/90

Immersion sleeve,
stainless steel V4A (1.4571)
with neck tube

flat sealing, cylindrical,
according to DIN 228

THERMASGARD® TH Immersion sleeve Ø 8 mm

Type / WG01	p _{max} (static)	T _{max}	Inserted length (EL)	Item No.
TH-MS/xx	Brass nickel-plated /galvanised			Ø 8 x 0.75 mm
TH-MS 50MM	10 bar	+150 °C	50 mm	7100-0011-0010-001
TH-MS 100MM	10 bar	+150 °C	100 mm	7100-0011-0020-001
TH-MS 150MM	10 bar	+150 °C	150 mm	7100-0011-0030-001
TH-MS 200MM	10 bar	+150 °C	200 mm	7100-0011-0040-001
TH-MS 250MM	10 bar	+150 °C	250 mm	7100-0011-0050-001
TH-MS 300MM	10 bar	+150 °C	300 mm	7100-0011-0060-001
TH-MS 350MM	10 bar	+150 °C	350 mm	7100-0011-0070-001
TH-MS 400MM	10 bar	+150 °C	400 mm	7100-0011-0080-001
TH-VA/xx	Stainless steel V4A (1.4571)			Ø 8 x 0.75 mm
TH-VA 50MM	40 bar	+600 °C	50 mm	7100-0012-0010-001
TH-VA 100MM	40 bar	+600 °C	100 mm	7100-0012-0020-001
TH-VA 150MM	40 bar	+600 °C	150 mm	7100-0012-0030-001
TH-VA 200MM	40 bar	+600 °C	200 mm	7100-0012-0040-001
TH-VA 250MM	40 bar	+600 °C	250 mm	7100-0012-0050-001
TH-VA 300MM	40 bar	+600 °C	300 mm	7100-0012-0060-001
TH-VA 350MM	40 bar	+600 °C	350 mm	7100-0012-0070-001
TH-VA 400MM	40 bar	+600 °C	400 mm	7100-0012-0080-001
TH-VA/xx/90	Stainless steel V4A (1.4571), with neck tube (90mm)			Ø 8 x 0.75 mm
TH-VA 50/90MM	40 bar	+600 °C	50 mm	7100-0012-2010-001
TH-VA 100/90MM	40 bar	+600 °C	100 mm	7100-0012-2020-001
TH-VA 150/90MM	40 bar	+600 °C	150 mm	7100-0012-2030-001
TH-VA 200/90MM	40 bar	+600 °C	200 mm	7100-0012-2040-001
TH-VA 250/90MM	40 bar	+600 °C	250 mm	7100-0012-2050-001
TH-VA 300/90MM	40 bar	+600 °C	300 mm	7100-0012-2060-001

Note: Inner diameter of socket 6.5 mm

INSTRUCTIONS FOR PLANNING AND INSTALLATION

The approaching flow causes the protective tube to vibrate.

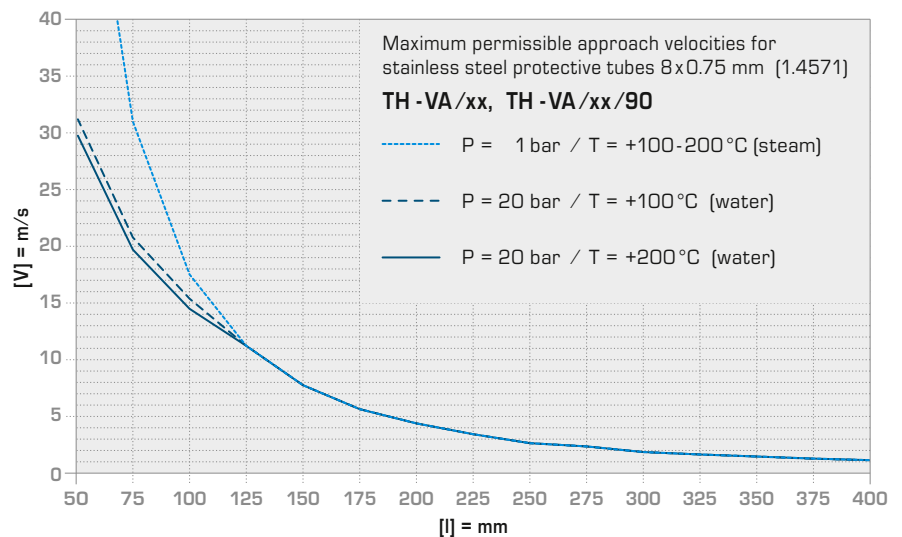
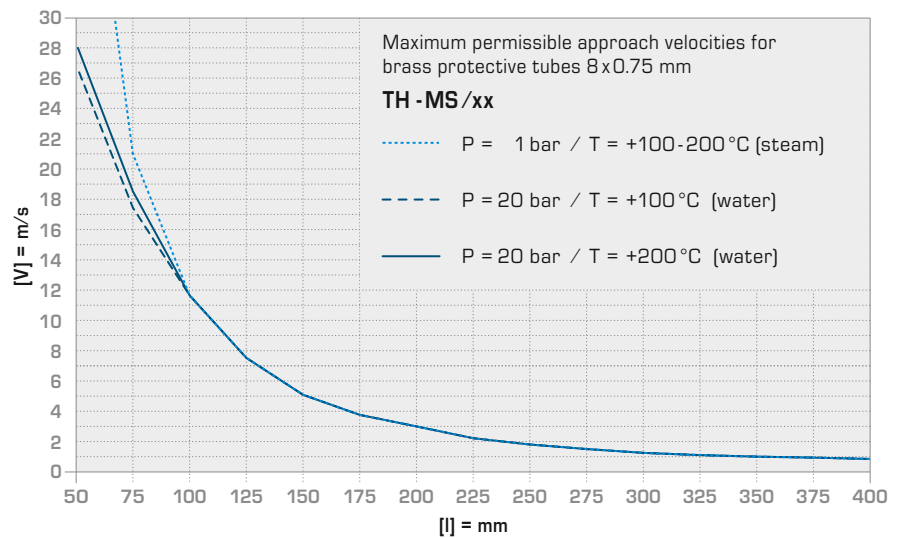
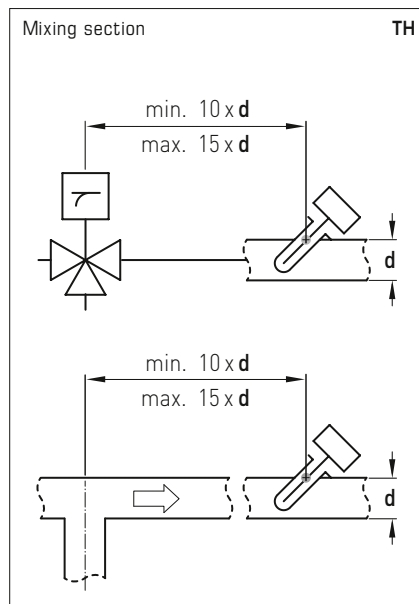
If the specified approach velocity is exceeded even by a marginal amount, a negative impact on the protective tube's service life may result (material fatigue).

Please observe permissible approach velocities for stainless steel protective tubes (see graph TH-VA) as well as for brass protective tubes (see graph TH-MS).

Discharge of gases and pressure surges must be avoided as they have a negative influence on the service life and may damage the protective tubes irreparably.

MIXING SECTION

After the mixing of water flows of different temperatures, the issue of temperature stratification means that an adequate distance to the sensor must be observed.

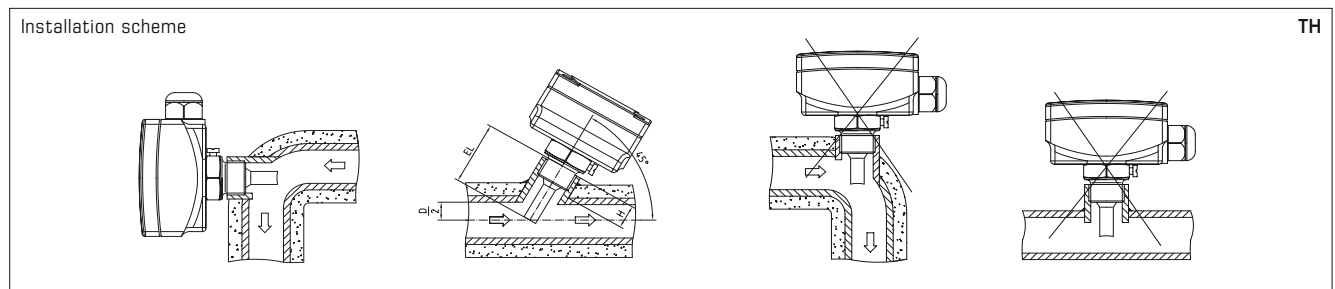


When Copper and Zinc are Not Enough

Uncompromising quality and safety are also paramount in the design of the accessory from S+S. This is why our metal immersion sleeves for duct sensors are made using either nickel plated brass or stainless steel. Brass is an alloy consisting mainly of copper and zinc, which provide good forming and machining properties, mechanical strength, temperature resistance and electrical conductivity.

In contrast to conventional products in the market, however, our brass immersion sleeves feature an additional nickel coating. This ensures their longterm corrosion resistance in minor aggressive media, from air and water to alkaline solutions and diluted acids. At the same time, the nickel layer prevents ingredients in thermally conductive compounds from stripping the copper and causing pitting.

Highest protection against corrosion is provided by immersion sleeves made of stainless steel. Among the available qualities, we chose VA 1.4571 or AISI 316 Ti, a high-grade austenite specialty combining chromium, nickel and molybdenum with an extra titanium content. The alloy has a proven fit particularly in the design of chemical process equipment and technical instruments as well as in waste gas and water treatment. Its corrosion resistance also includes chlorides or salts and more aggressive acids, such as hydrochloric acid (HCl).

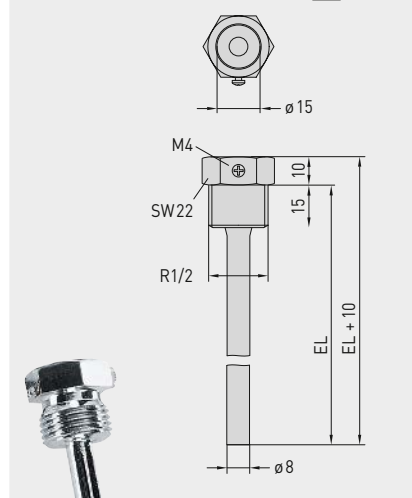


THERMASGARD® THR

Immersion sleeves made of stainless steel or brass, nickel-plated /galvanised,
for temperature controllers ETR (Thor 2)

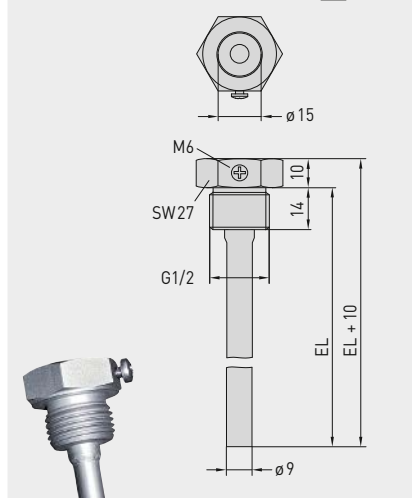


S+S REGELTECHNIK

Dimensional drawing **THR-MS-08/xx****THR-MS-08/xx**

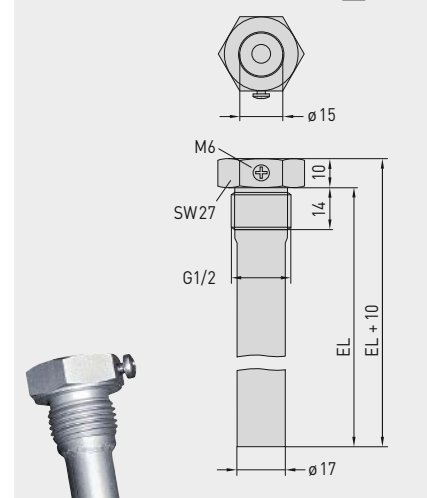
Immersion sleeve,
nickel-plated brass/
galvanised

thread-sealing, conical,
according to DIN 10226

Dimensional drawing **THR-VA-09/xx****THR-VA-09/xx**

Immersion sleeve,
stainless steel V4A [1.4571]

flat sealing, cylindrical,
according to DIN 228

Dimensional drawing **THR-VA-17/xx****THR-VA-17/xx**

Immersion sleeve,
stainless steel V4A [1.4571]

flat sealing, cylindrical,
according to DIN 228

When Copper and Zinc are Not Enough

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In contrast to conventional products in the market, however, our brass immersion sleeves feature an additional nickel coating. This ensures their longterm corrosion resistance in minor aggressive media, from air and water to alkaline solutions and diluted acids. At the same time, the nickel layer prevents ingredients in thermally conductive compounds from stripping the copper and causing pitting.

Highest protection against corrosion is provided by immersion sleeves made of stainless steel. Among the available qualities, we chose VA 1.4571 or AISI 316 Ti, a high-grade austenite specialty combining chromium, nickel and molybdenum with an extra titanium content. The alloy has a proven fit particularly in the design of chemical process equipment and technical instruments as well as in waste gas and water treatment. Its corrosion resistance also includes chlorides or salts and more aggressive acids, such as hydrochloric acid (HCl).

THERMASGARD® THR Immersion sleeve Ø 8 / 9 / 17 mm for **THERMASREG® ETR** (Thor 2)

Type / WG01	p _{max} (static)	T _{max}	Time Constant for Medium:			Inserted Length [EL]	Item No. Ø
			Air	Water	Oil		
THR-MS-08/xx	Brass nickel-plated /galvanised						Ø 8 x 0.5 mm
THR-MS-08/100	10 bar	+150 °C	106 s	18 s	53 s	100 mm	7100-0011-3022-000
THR-MS-08/150	10 bar	+150 °C	106 s	18 s	53 s	150 mm	7100-0011-3404-000
THR-MS-08/200	10 bar	+150 °C	106 s	18 s	53 s	200 mm	7100-0011-3403-000
THR-VA-09/xx	Stainless steel V4A (1.4571)						Ø 9 x 1.0 mm
THR-VA-09/100	25 bar	+150 °C	92 s	17 s	41 s	100 mm	7100-0012-3022-000
THR-VA-09/150	25 bar	+150 °C	92 s	17 s	41 s	150 mm	7100-0012-3032-000
THR-VA-09/200	25 bar	+150 °C	92 s	17 s	41 s	200 mm	7100-0012-3042-000
THR-VA-17/xx	Stainless steel V4A (1.4571)						Ø 17 x 1.0 mm
THR-VA-17/150	25 bar	+150 °C	–	45 s	55 s	150 mm	7100-0012-3033-000
THR-VA-17/200	25 bar	+150 °C	–	45 s	55 s	200 mm	7100-0012-3404-000
Ordering example:	THR-MS-08 / 100 (Brass immersion sleeve, Ø=8 mm, EL = 100 mm) THR-VA-09 / 150 (Stainless steel immersion sleeve, Ø=9 mm, EL = 150 mm) THR-VA-17 / 200 (Stainless steel immersion sleeve, Ø=17 mm, EL = 200 mm)						
Note:	inner diameter of socket 15.0 mm						

INSTRUCTIONS FOR PLANNING AND INSTALLATION

The approaching flow causes the protective tube to vibrate.

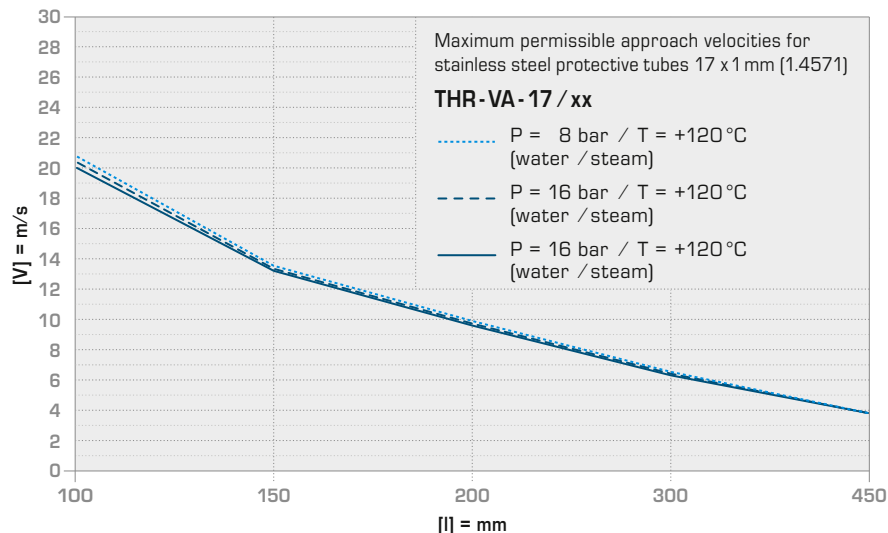
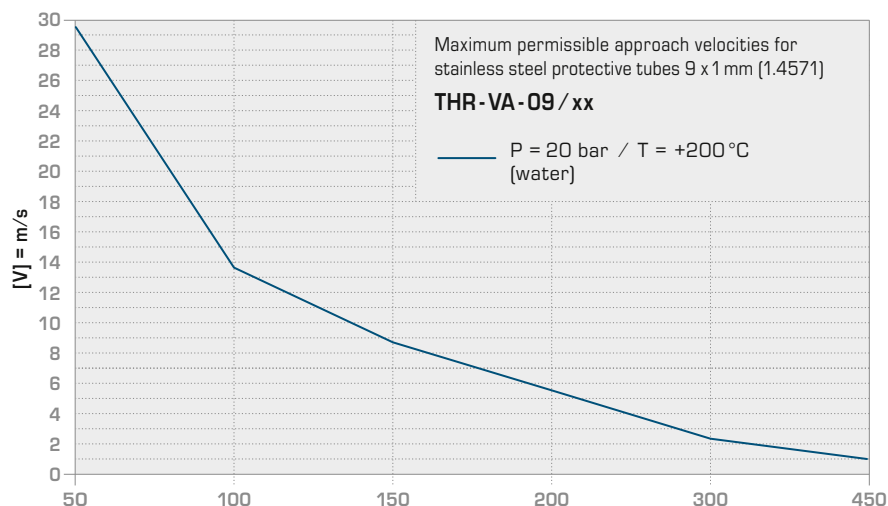
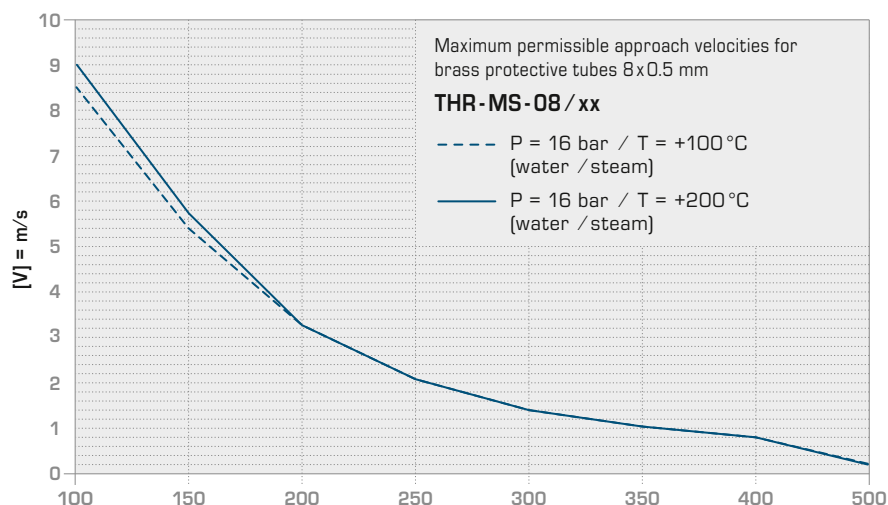
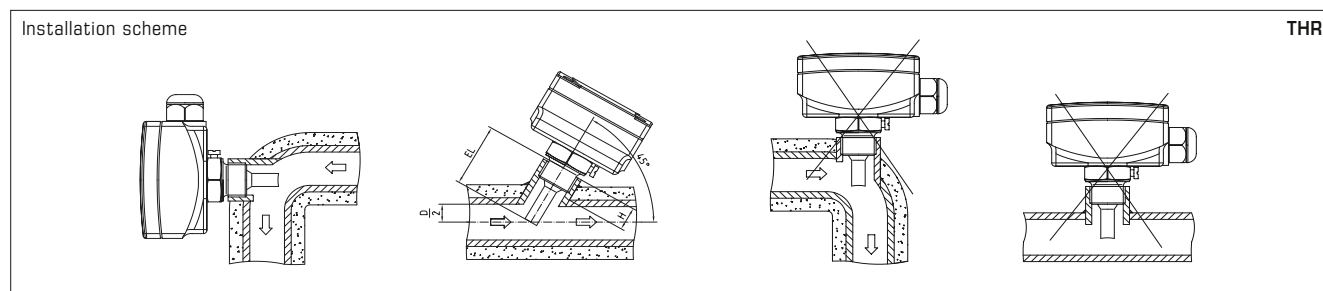
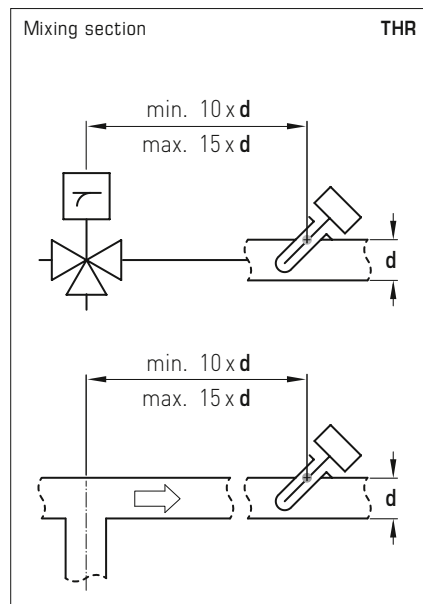
If the specified approach velocity is exceeded even by a marginal amount, a negative impact on the protective tube's service life may result (material fatigue).

Please observe permissible approach velocities for stainless steel protective tubes (see graph **THR-VA**) as well as for brass protective tubes (see graph **THR-MS**).

Discharge of gases and pressure surges must be avoided as they have a negative influence on the service life and may damage the protective tubes irreparably.

MIXING SECTION

After the mixing of water flows of different temperatures, the issue of temperature stratification means that an adequate distance to the sensor must be observed.



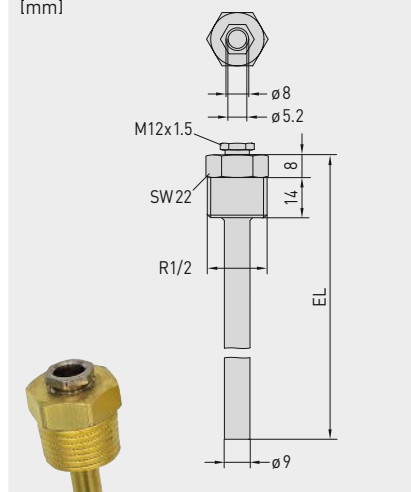
THERMASGARD® THE

Immersion sleeves made of stainless steel or brass,
with adjusting screw, for sleeve sensor HTF / HFTM

S+S REGELTECHNIK

Dimensional drawing
[mm]

THE -MS-G xx



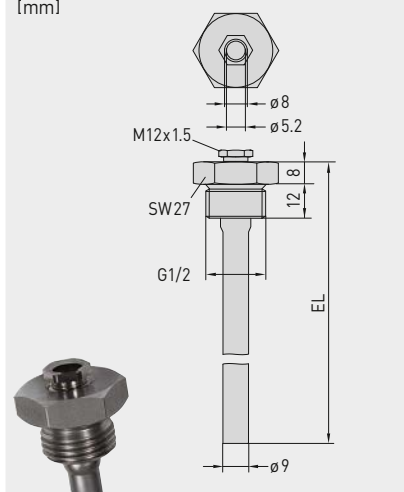
THE-MS-G xx

Immersion sleeve,
polished brass

with adjusting screw,
thread-sealing, conical,
according to DIN 10226

Dimensional drawing
[mm]

THE -VA xx



THE-VA xx

Immersion sleeve,
stainless steel V4A (1.4571)

with adjusting screw,
flat sealing, cylindrical,
according to DIN 228

THERMASGARD® THE Immersion sleeve Ø 9 mm for THERMASGARD® HTF / HFTM

Type / WG01	p _{max} (static)	T _{max}	Inserted Length (EL)	Item No.
THE-MS-G xx	polished brass			Ø 9 x 1.0 mm
THE-MS-G 50MM	16 bar	+130 °C	50 mm	7100-0017-6010-002
THE-MS-G 100MM	16 bar	+130 °C	100 mm	7100-0017-6020-002
THE-MS-G 150MM	16 bar	+130 °C	150 mm	7100-0017-6030-002
THE-MS-G 200MM	16 bar	+130 °C	200 mm	7100-0017-6040-002
THE-MS-G 250MM	16 bar	+130 °C	250 mm	7100-0017-6050-002
THE-VA xx	Stainless steel V4A (1.4571)			Ø 9 x 1.0 mm
THE-VA 50MM	40 bar	+200 °C	50 mm	7100-0012-6010-002
THE-VA 100MM	40 bar	+200 °C	100 mm	7100-0012-6020-002
THE-VA 150MM	40 bar	+200 °C	150 mm	7100-0012-6030-002
THE-VA 200MM	40 bar	+200 °C	200 mm	7100-0012-6040-002
THE-VA 250MM	40 bar	+200 °C	250 mm	7100-0012-6050-002
THE-VA 300MM	40 bar	+200 °C	300 mm	7100-0012-6060-002
THE-VA 400MM	40 bar	+200 °C	400 mm	7100-0012-6080-002
Ordering example:	THE-MS-G 150MM (Brass immersion sleeve, Ø = 9 mm, EL = 150 mm) THE-VA 150MM (Stainless steel immersion sleeve, Ø = 9 mm, EL = 150 mm) Other inserted lengths on request			
Note:	inner diameter of socket 5.2 mm, with adjusting screw M12 x 1.5			

INSTRUCTIONS FOR PLANNING AND INSTALLATION

The approaching flow causes the protective tube to vibrate.

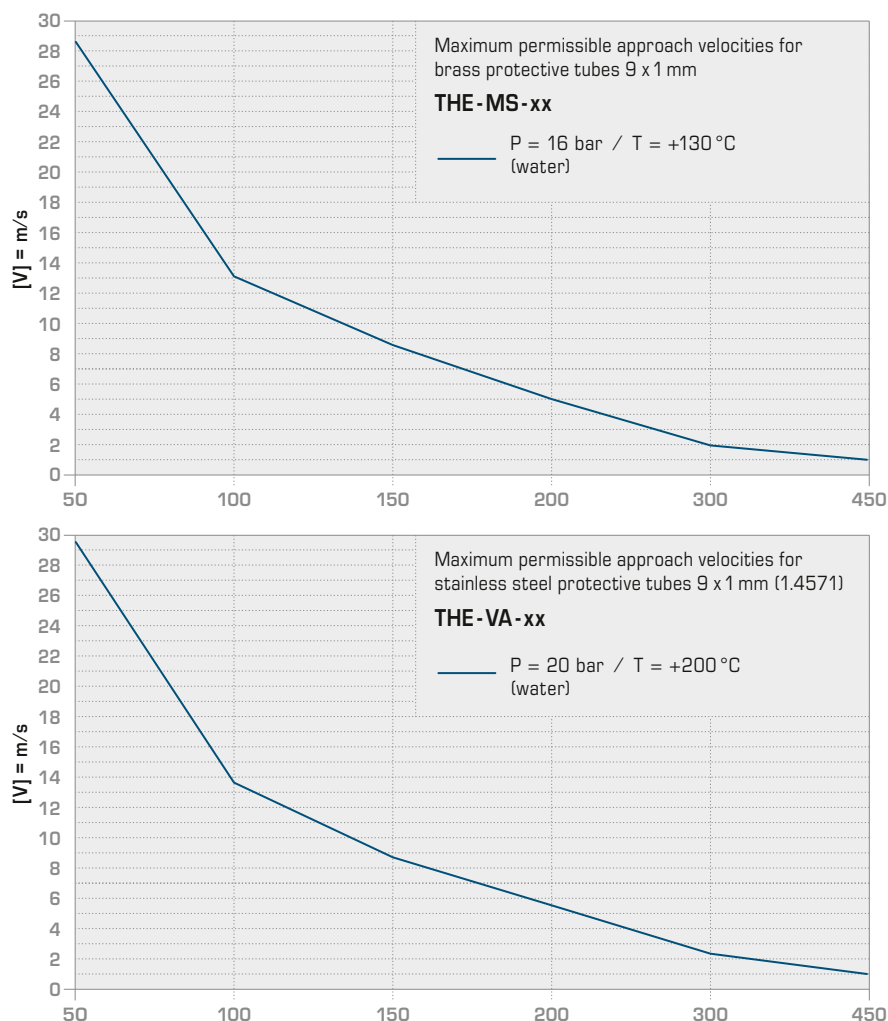
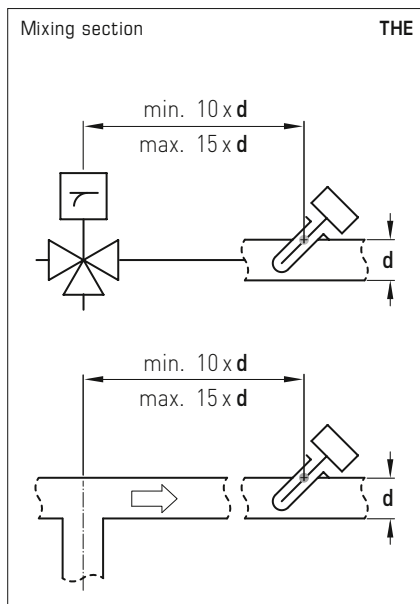
If the specified approach velocity is exceeded even by a marginal amount, a negative impact on the protective tube's service life may result (material fatigue).

Please observe permissible approach velocities for stainless steel protective tubes (see graph **THE-VA**) as well as for brass protective tubes (see graph **THE-MS**).

Discharge of gases and pressure surges must be avoided as they have a negative influence on the service life and may damage the protective tubes irreparably.

MIXING SECTION

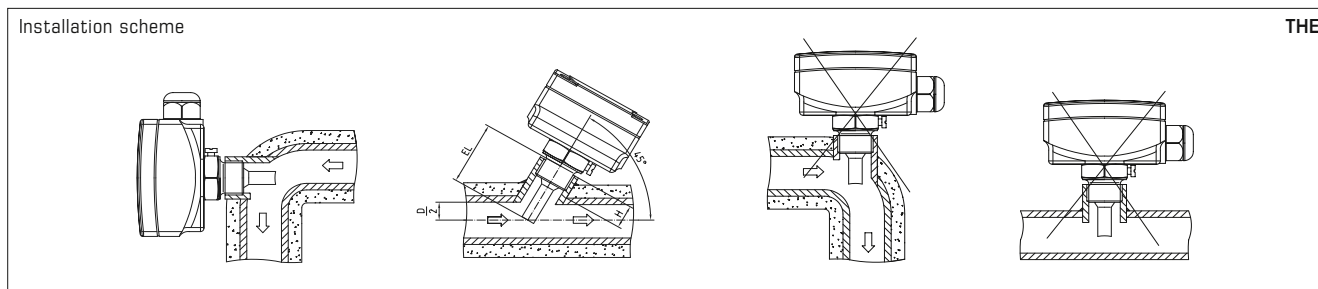
After the mixing of water flows of different temperatures, the issue of temperature stratification means that an adequate distance to the sensor must be observed.



BRASS OR STAINLESS STEEL

Uncompromising quality and safety are also paramount in the design of the accessory from S+S. This is why our metal immersion sleeves for duct sensors are made using either brass or stainless steel. Brass is an alloy consisting mainly of copper and zinc, which give it mechanical strength, heat resistance and thermal conductivity, among other characteristics. This is the material of choice for most standard applications.

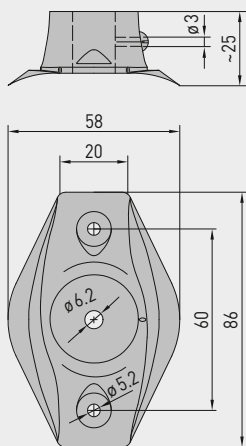
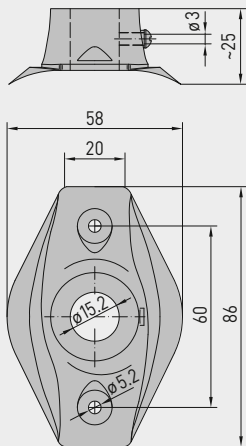
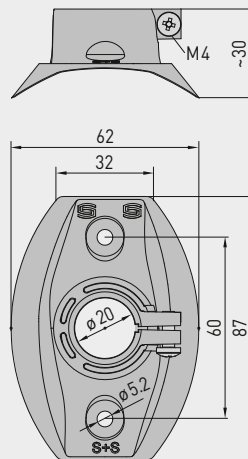
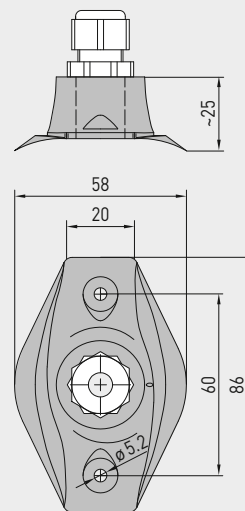
Highest protection against corrosion is provided by immersion sleeves made of stainless steel. Among the available qualities, we chose VA 1.4571 or AISI 316 Ti, a high-grade austenite specialty combining chromium, nickel and molybdenum with an extra titanium content. The alloy has a proven fit particularly in the design of chemical process equipment and technical instruments as well as in waste gas and water treatment. Its corrosion resistance also includes chlorides or salts and more aggressive acids, such as hydrochloric acid (HCl).



Mounting flange, plastic

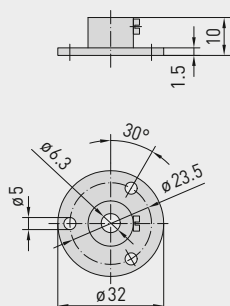
Capillary tube gland bracket

S+S REGELTECHNIK

Dimensional drawing **MF-06-K**Dimensional drawing **MF-15-K**Dimensional drawing **MFT-20-K**Dimensional drawing **KRD-04****MF-06-K**Mounting flange,
plastic**MF-15-K**Mounting flange,
plastic**MFT-20-K**Mounting flange,
plastic**KRD-04**Capillary tube gland
bracket, plastic

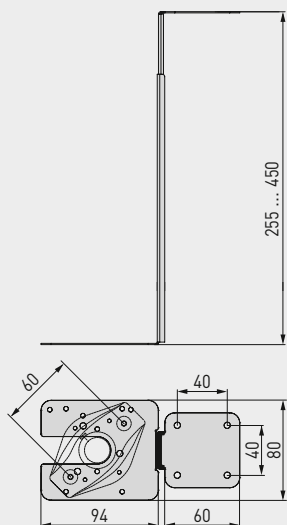
Type / WG01	Mounting flange, plastic	Tube Gland	T _{max}	Item No.
MF-xx-K	for metal protective tubes!			
MF-06-K	Mounting flange, plastic, approx. 58 x 86 x 25 mm for rod sensors MWTF/MWTM	Ø 6.2 mm	+100 °C	7100-0030-1000-000
MF-10-K	Mounting flange, plastic, approx. 58 x 86 x 25 mm for duct air flow monitors KLGF/KLSW	Ø 10.2 mm	+100 °C	7100-0031-1000-000
MF-14-K	Mounting flange, plastic, approx. 58 x 86 x 25 mm for duct humidity sensors KFF/KFTF and pendulum room humidity sensors RPFF/RPFTF as well as for duct air flow monitors KLGF/KLSW	Ø 14.2 mm	+100 °C	7100-0030-2000-000
MF-15-K	Mounting flange, plastic, approx. 58 x 86 x 25 mm for temperature sensors TF (series Tyr 1) and temperature measuring transducers TM (series Tyr 1)	Ø 15.2 mm	+100 °C	7100-0032-0000-000
MF-20-K	Mounting flange, plastic, approx. 58 x 86 x 25 mm for duct sensors KH	Ø 20.2 mm	+100 °C	7100-0030-4000-000
MFT-20-K	for PLEUROFORM multi-channel pipes!			
MFT-20-K	Mounting flange, plastic, approx. 62 x 87 x 30 mm for duct sensors (series Tyr 1 / Tyr 2)	Ø 20 mm	+100 °C	7000-0031-0000-000

Type / WG01	Capillary tube gland bracket	Item No.
KRD-04	Capillary tube gland bracket, plastic, approx. 58 x 86 x 25 mm (M 16 x 1.5) for frost protection thermostats (e.g. for air ducts) and rod sensors MWTF/MWTM	7100-0030-7000-000

Dimensional drawing **MF-06-M**


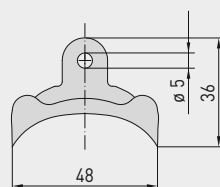
MF-06-M

Mounting flange,
metal


Dimensional drawing **KMW-F**


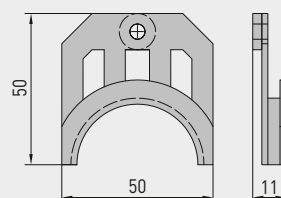
KMW-F

Duct mounting angle,
metal


Dimensional drawing **MK-05-M**


MK-05-M

Galvanised steel
mounting clamps


Dimensional drawing **MK-05-K**


MK-05-K

Mounting clamps,
plastic



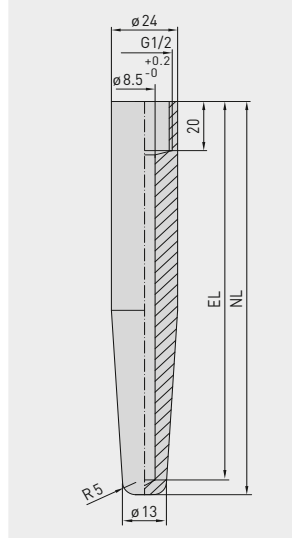
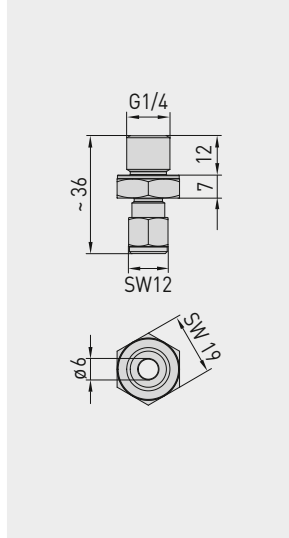
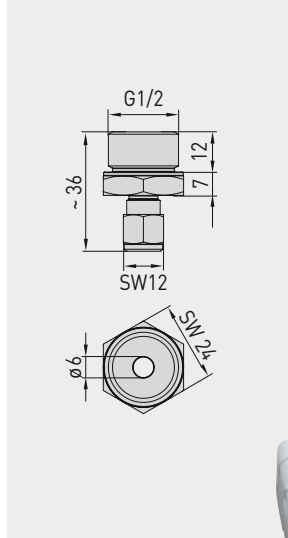
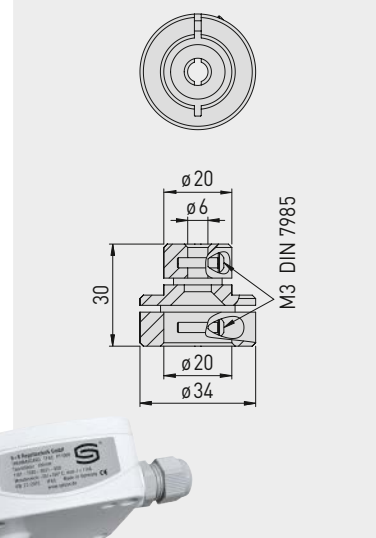
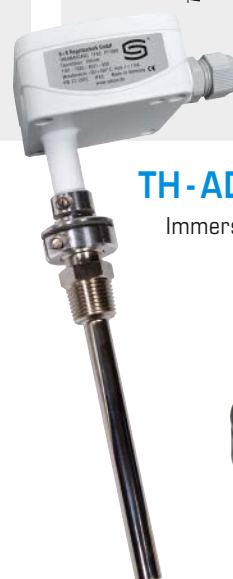
Type / WG01	Mounting flange, metal	Tube Gland	T _{max}	Item No.
MF-xx-M	for metal protective tubes!			
MF-06-M	Mounting flange, metal (galvanised steel), Ø 32 mm, for temperature sensors TF (form B) temperature measuring transducers TM (form B), rod sensors MWTF / MWTM	Ø 6.3 mm	+700 °C	7100-0030-5000-100

Type / WG01	Duct mounting angle, metal	Item No.
KMW-F	flexible for duct sensors	
KMW-F 450MM	for installing duct sensors in the ventilation duct or ventilation unit material: galvanised sheet steel, DX51D+Z 275 MB-C, t=1,0mm adjustable from 255...450mm, incl. fixing screws	7100-0030-0100-450

Type / WG01	Mounting clamps	Item No.
MK-05-M	Galvanised steel mounting clamps (6 pieces) for rod sensors MWTF / MWTM	7100-0034-0000-000
MK-05-K	Plastic mounting clamps (6 pieces) for frost protection thermostats	7100-0034-1000-000

Mounting accessories for Immersion sensor

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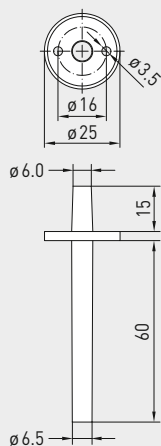
Dimensional drawing **ESSH****ESSH**Welding protective
sleeveDimensional drawing **KVSS****KVSS**Clamp union
with cutting ringDimensional drawing **KVST****KVST**Clamp union
with clamp ringDimensional drawing **TH-ADAPTER-HW****TH-ADAPTER-HW**Immersion sleeve adapter,
metal

Type / WG01	Welding protective sleeve	Item No.
	Welding protecting sleeves, G 1/2" straight internal pipe thread, stainless steel V4A (1.4571), other materials on request,	
ESSH 100MM	for immersion sleeves (EL) = 100 mm, P _{max} = 100 bar	7100-0052-0020-001
ESSH 150MM	for immersion sleeves (EL) = 150 mm, P _{max} = 100 bar	7100-0052-0030-001
ESSH 200MM	for immersion sleeves (EL) = 200 mm, P _{max} = 100 bar	7100-0052-0040-001

Type / WG01	Clamp union	Item No.
KVST	Clamp union with clamp ring PTFE, Ø 6 mm	7100-0032-0110-000
KVSS	Clamp union with cutting ring VA, Ø 6 mm	7100-0032-1000-000

Type / WG01	Immersion sleeve adapter, metal	Item No.
TH-ADAPTER-HW	Metal immersion sleeve adapter (adaptation Ø 20 mm / Ø 6 mm) for mounting S+S temperature sensors from the TF and TM series in immersion sleeves by Honeywell / CentraLine of the types VFFT, VFL, VFNT, VFLN	7100-0037-0001-000

Dimensional drawing

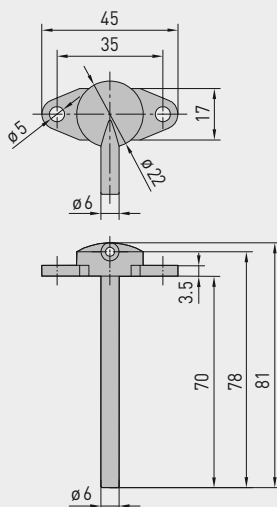
ASD-06


ASD-06

Connection set
(straight nipples)



Dimensional drawing

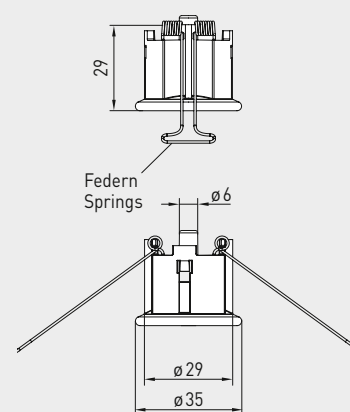
ASD-07


ASD-07

Connection nipples
(at 90 degree angle)



Dimensional drawing

DAL


DAL

Pressure outlet



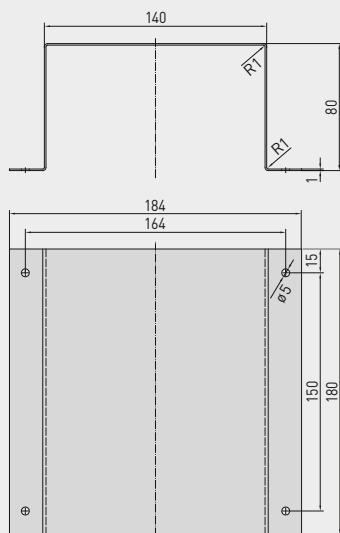
Type / WG01	Accessories for differential pressure switches	Item No.
ASD-06	Connection set consisting of 2 connection nipples (straight) made of ABS, 2 m PVC hose (soft, UV-resistant), 4 Philips head screws (no pre-drilling required)	7100-0060-3000-000
ASD-07	2 connection nipples (at 90 degree angle) made of ABS	7100-0060-7000-000
ASS-UV 100M	Connecting hose , UV-resistant, Ø 6 mm, 1 roll (100 m)	7100-0060-3101-000
DAL-01	Pressure outlet for ceiling and in-wall installation, colour pure white (similar to RAL 9010) as a pressure reference point, Ø 6 mm	7300-0060-3000-001
DAL-02	for hose attachment, Ø 6 mm	7300-0060-3000-100
DAL-03	as a pressure reference point, with sinter filter made of stainless steel V4A (1.4404), Ø 6 mm	7300-0060-3000-200

Type / WG01	Accessories for differential pressure switches DS1, DS2	Item No.
DS-MW-Z	Sheet steel mounting angle in Z-Form	7100-0063-0000-000
DS-MW-L	Sheet steel mounting angle in L-Form	7100-0063-1000-000
DS-MW-U	Sheet steel mounting angle in U-Form	7100-0060-9000-000

Protection hoods

Dimensional drawing

WS-01



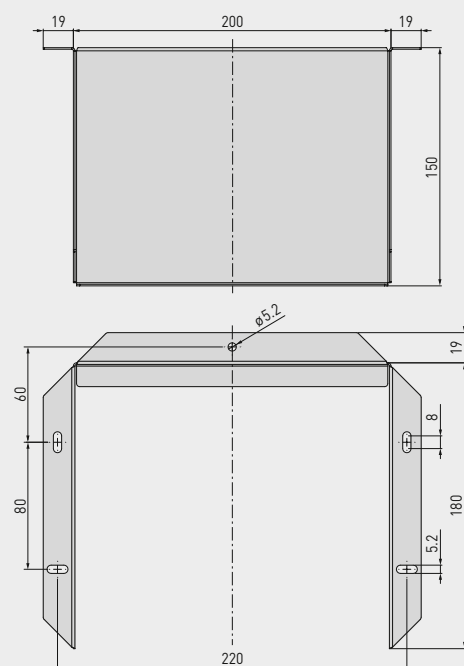
WS-01

Sun and ball-impact protection hood



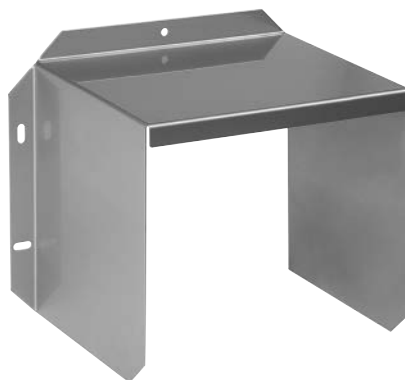
Dimensional drawing

WS-03



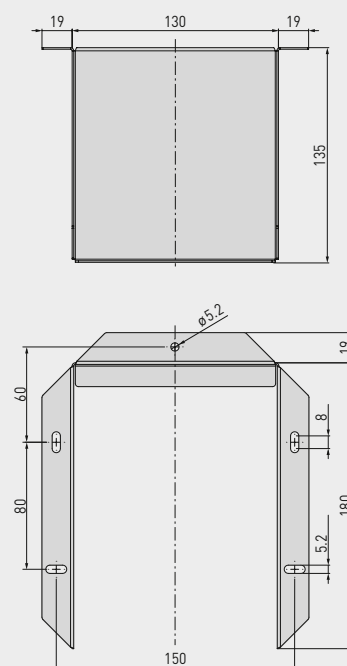
WS-03

Weather and sun protection hood



Dimensional drawing

WS-04

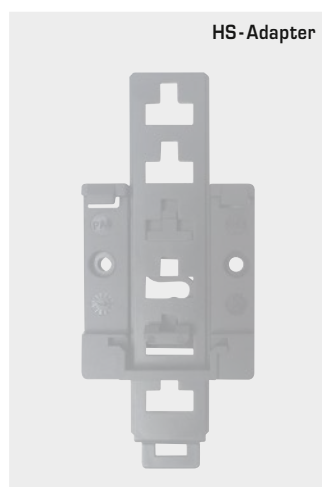


WS-04

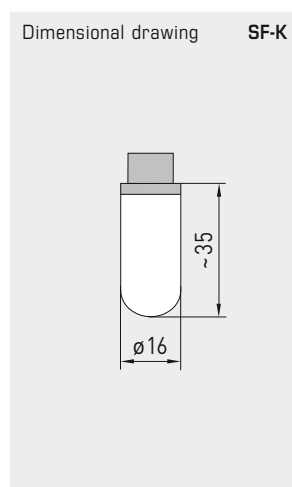
Weather and sun protection hood



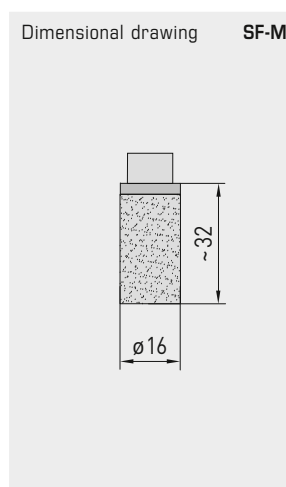
Type / WG01	Protection hoods	Item No.
WS-01	Sun and ball-impact protection hood, 184 x 180 x 80 mm, stainless steel V2A (1.4301)	7100-0040-2000-000
WS-03	Weather and sun protection hood, 200 x 180 x 150 mm, stainless steel V2A (1.4301)	7100-0040-6000-000
WS-04	Weather and sun protection hood, 130 x 180 x 135 mm, stainless steel V2A (1.4301)	7100-0040-7000-000



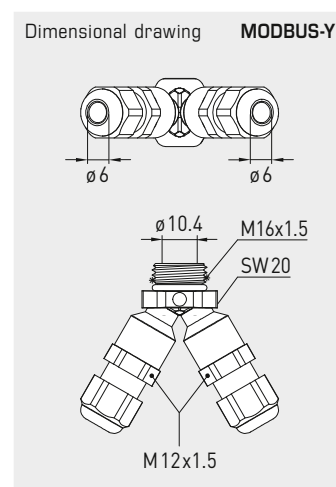
HS-Adapter



Dimensional drawing SF-K



Dimensional drawing SF-M



Dimensional drawing MODBUS-Y

HS-Adapter

Universal holder
for small housing
on top-hat rails

SF-K

Plastic sinter filter

SF-M

Metal sinter filter

MODBUS-Y

Y-adapter as a bypass
for bus connection



Type / WG01	Spare parts, small parts and special accessories	Item No.
SF-K	Plastic sinter filter, Ø 16 mm, L = 35 mm, exchangeable for humidity sensors	7000-0050-2310-000
SF-M	Metal sinter filter, Ø 16 mm, L = 32 mm, exchangeable, stainless steel V4A (1.4404) for humidity sensors	7000-0050-2200-100
PSW-09	1 set of stainless steel paddles 1-8" (4 pieces), 29 x 34/60/89/157 mm for flow monitors SW	7700-0010-1000-000
PWFS-08	Stainless steel vane for vane switch WFS	7700-0010-2000-000
WH-20	Wall bracket for duct hygrometers KH	1200-0010-4000-000
HS-ADAPTER	Universal holder for small housings made from plastic PA6, black, for installation on 35mm top-hat rails, incl. fixing screws	7100-0038-0000-000
SPB1	Strap for surface-contact sensors	7100-0035-0000-000
WLP-1	Heat-conductive paste, silicone-free (2 ml)	7100-0060-1000-000
MODBUS-Y	Y-adapter for cable gland M16x 1.5 (on 2x M12x 1.5), made of plastic	7000-0005-0002-100

Optional services

Individual components / WG01		Item No.
FET		7100-0022-4000-000
KTY 81-210		7100-0022-0000-000
LM235Z	(TCR = 10 mV / K; 2.73 V at 0°C), KP10	7100-0022-1000-000
NI1000	(according to DIN EN 43760, class B, TKR = 6180 ppm / K)	7100-0020-9000-000
NI1000TK5000	(according to DIN EN 43760, class B, TKR = 5000 ppm / K), LG-Ni 1000	7100-0021-0000-000
NTC 1,8 KOHM	NTC 1.8 K	7100-0021-2000-000
NTC 10 KOHM PRECON	NTC 10 K Precon	7100-0021-9000-000
NTC 20 KOHM	NTC 20 K	7100-0021-6000-000
NTC 30 KOHM	NTC 30 K	7100-0021-7000-000
NTC 50 KOHM	NTC 50 K	7100-0021-8000-000
PT100 KLASSE B	(according to DIN EN 60751, class B)	7100-0020-1000-000
PT100 1/2 DIN	(according to DIN EN 60751, class B)	7100-0020-2000-000
PT100 1/3 DIN	(according to DIN EN 60751, class B)	7100-0020-3000-000
PT1000 KLASSE B	(according to DIN EN 60751, class B)	7100-0020-5000-000
PT1000 1/2 DIN	(according to DIN EN 60751, class B)	7100-0020-6000-000
PT1000 1/3 DIN	(according to DIN EN 60751, class B)	7100-0020-7000-000
PT1000 1/10 DIN	(according to DIN EN 60751, class B)	7100-0020-8000-000
Note:	Other sensors on request.	

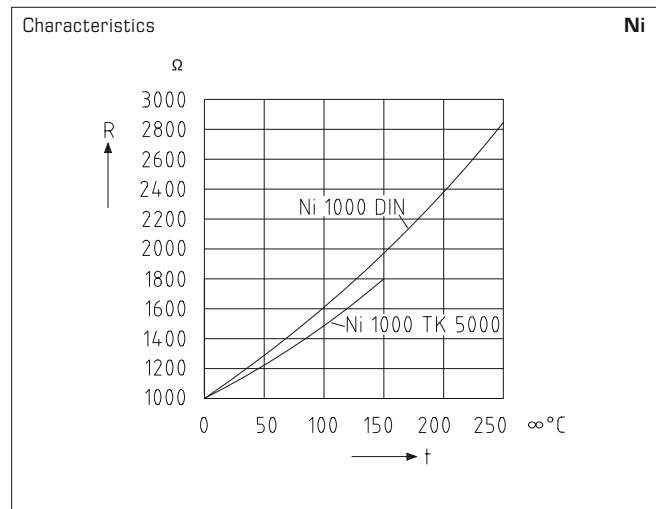
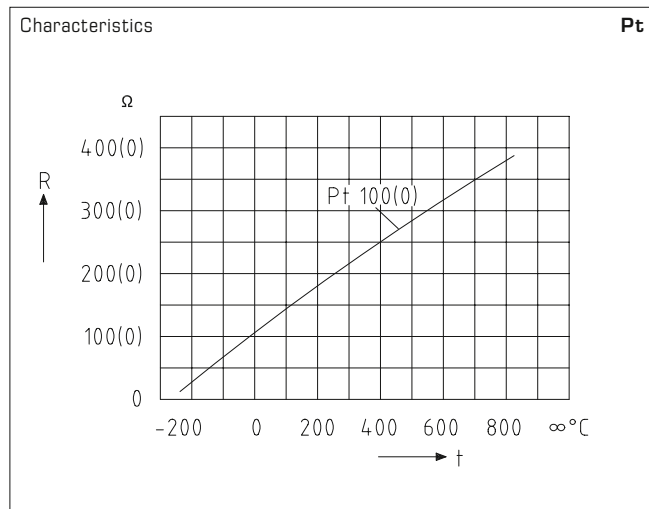
Optional services / WG01		Unit
Double sensor		plus 50 % of instrument price
1 / 2 DIN	(according to DIN EN 60751, class B)	Per piece
1 / 3 DIN	(according to DIN EN 60751, class B)	Per piece
1 / 10 DIN	(according to DIN EN 60751, class B)	Per piece
Connection type	4-wire connection with ceramic base, head form B	Per piece
	4-wire connection with circuit board, box head	Per piece
Protection class	IP 65 at head form B	Per piece
	IP 68 (Sensor sleeve watertight compound-filled) for cable sensors	Per piece



Custom-made products (for 25 or more pieces)		Unit	
Silicone-free sensor production		Per piece	on request!
Factory test certificate (per device)	1-point certificate	One-time cost	on request!
	2-point certificate	One-time cost	on request!
	3-point certificate	One-time cost	on request!
	Each additional test point	One-time cost	on request!
Custom-made products	Setup costs for custom-made products	One-time cost	on request!
Special paintwork	Set-up costs for special paintwork	one-off (net)	
	plus costs for special paintwork	from 25 piece	per piece
		from 50 piece	per piece
Special print (with stereotype)	Set-up costs incl. stereotype production, 1 colour	one-off (net)	
	Set-up costs incl. stereotype production, 2 colour	one-off (net)	
	plus costs for special print	from 25 piece	per piece / colour
		from 50 piece	per piece / colour
		from 100 piece	per piece / colour
		from 250 piece	per piece / colour
Printing customer logo on housing cover (for 200 covers of one housing series)	Setup costs for printing on housing cover	One-time cost	on request!
	Plus printing costs, 2-colour, printing on housing cover	Per piece	on request!
Labelling with customer logo	Setup costs for labelling	One-time cost	on request!
	Plus costs for labelling	Per piece	on request!

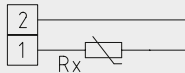
Characteristics and wiring of terminal connections of some passive temperature sensors

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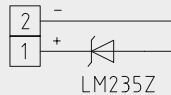


Wiring of terminal connections room devices and box head

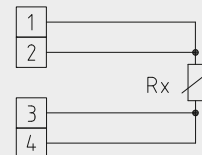
Connecting diagram **1 x two-wire connection standard**



Connecting diagram **1 x two-wire connection LM235Z (KP 10)**

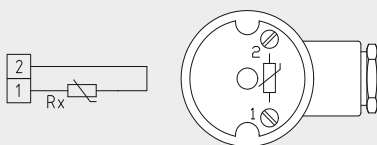


Connecting diagram **1 x four-wire connection (optional)**

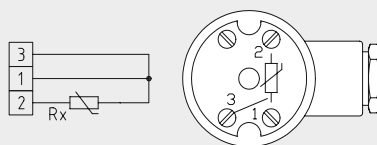


Wiring of terminal connections head form B

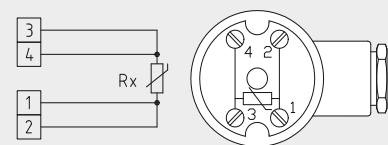
Connecting diagram **1 x two-wire connection**



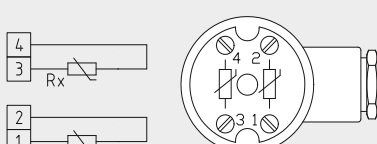
Connecting diagram **1 x three-wire connection**



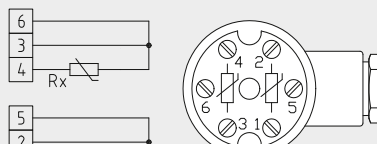
Connecting diagram **1 x four-wire connection**



Connecting diagram **2 x two-wire connection**



Connecting diagram **2 x three-wire connection**



Sensor type	Manufacturer *	RTF	ATF	TF 65 + MF-15-K	TF 65 + TH 08	ALTF	HTF
10K3A1 NTC 10 kOhm	Aquatrol	●	●	●	●	●	●
	Honeywell	T 8120 B	T 7416 A T 7043 E	●	T 7106 A T 7043 F	T 7044 C	T 7076 D
	Johnson	●	●	TE - 6361 V TE - 636 GV-1	●	●	●
	Satchwell	●	DOT10 K2 DOS10 K2	DDT10 K1	DWT10 K1 DST10 K1	●	●
	Seachange	SEN / PTR / ROM	SEN / PR / OAT	SEN / PR / DCT	SEN / PR / IMM	SEN / PR / CLP	SEN / FL
	Trend	TE - TS	TE - TO	TE - TD	TE - TI	TE - TC	●
10K4A1 NTC 10 kOhm Precon	Andover	TTS - S Series	●	TT - O Series	TT - I Series	TT - ST	●
	Delta Controls	●	●	●	●	●	●
	Siebe	●	●	●	●	●	●
	York (< 40°C)	●	●	●	●	●	●
20K6A1 NTC 20 kOhm	Honeywell	T 7460 H T 7470 A DRF 20 - S RF 20 T 4712	AF 20 DAF 20 T 7416 A1022	LF 20	VF 20 T VF 20 NT VF 20 L VF 20 LN WPF 20 T 7425 A	VF 20 A WPF 20 A	KFT 20 KFT 20 B DKF 20
PT 100 DIN EN 60 751 Klasse B	Sauter	EGT430 / F011	●	EGT466 / F011 EGT447 / F011	●	●	EGT456 / F011
	Serck	●	●	●	●	●	●
	Siemens / Landis & Staefa	QAA100 QAA2010	QAC2010	FK-TP / 200 QAM2110	QAE2110	QAD2010	QAP2010
PT 1000 DIN EN 60 751 Klasse B	Honeywell	T 7412	T 7416 A1014	T 7411	T 7413	T 7414	●
	Sauter	EGT430 / F101	EGT401 / F101	EGT446 / F101 EGT447 / F101	–	EGT411 / F101	EGT456 / F101
	Serck	●	●	●	●	●	●
	Siebe	TS - 5811	●	●	●	●	●
	Cylon	●	●	●	●	●	●
Ni 1000 DIN EN 43 760	Sauter	EGT330 / F101	EGT301 / F101	EGT346 / F101 EGT347 / F101 EGT348 / F101	EGT346 / F101 EGT347 / F101 EGT348 / F101	EGT311 / F101	EGT354 / F101 EGT356 / F101
Ni 1000 / TCR Ni1000 TK500	Siemens / Landis & Staefa	QAA24 QAA25 QAA26 QAA27 QAA64	QAC22	QAM2120	QAE2120	QAD22 QAD26	QAP21 QAP22 QAZ21
SAT 1	Satchwell	DRT DU, DUS, DUSF	DOT0002 DOS0002	DDT0001	DWT0001 DST0001	●	DDU
FeT (T1)	Landis & Staefa	QAA2040 FR - T1	FW - T1	QAM2140 FK - T1	QAE2140 FT - T1	FA - T1	QAP2040 FTK - T1
TAC 1 NTC 1.8 kOhm	TAC Schneider	●	●	●	●	●	●
2.2 K3 A1 NTC 2.2 kOhm	Ambiflex	RTN3060	ETN3060	DTN3060	ITN3060	CTN3060	●
	Johnson	TE - 6344 P	TE - 6343 P	TE - 6341 P TE - 6341 V TE - 634 GV - 1	TE - 6342 P	–	–
3 K3 A1 NTC 3 kOhm	Alerton	MS-1000 Series TS-1050	●	●	●	●	●
3 K6 A1 NTC 30 kOhm	Drayton	A 701	A 702	●	A 703	A 704	●
LM235Z (KP10)	Kieback & Peter	TR TD	TA TAD	TLS TLD	TV, TVD TDN, TVP	TAV TAVD	TEV TKV

* Manufacturer names are brands and / or trademarks of the respective companies.

Range of preferential items permanently available from stock in standard design with S+S company logo

THERMASGARD® TF 43

Temperature sensors (basic device)

Type / WG03B	Output	Item No.
TF 43 PT 1000 xx	passive	IP54
TF43 Pt1000 50mm		1101-7010-5011-000
TF43 Pt1000 100mm		1101-7010-5021-000
TF43 Pt1000 150mm		1101-7010-5031-000
TF43 Pt1000 200mm		1101-7010-5041-000
TF43 Pt1000 250mm		1101-7010-5051-000
TF43 Pt1000 300mm		1101-7010-5061-000
TF43 Pt1000 350mm		1101-7010-5071-000
TF43 Pt1000 400mm		1101-7010-5081-000
TF 43 Ni1000 xx	passive	IP54
TF43 Ni1000 50mm		1101-7010-9011-000
TF43 Ni1000 100mm		1101-7010-9021-000
TF43 Ni1000 150mm		1101-7010-9031-000
TF43 Ni1000 200mm		1101-7010-9041-000
TF43 Ni1000 250mm		1101-7010-9051-000
TF43 Ni1000 300mm		1101-7010-9061-000
TF43 Ni1000 350mm		1101-7010-9071-000
TF43 Ni1000 400mm		1101-7010-9081-000
TF 43 Ni1000TK xx	passive	IP54
TF43 NiTK 50mm		1101-7011-0011-000
TF43 NiTK 100mm		1101-7011-0021-000
TF43 NiTK 150mm		1101-7011-0031-000
TF43 NiTK 200mm		1101-7011-0041-000
TF43 NiTK 250mm		1101-7011-0051-000
TF43 NiTK 300mm		1101-7011-0061-000
TF43 NiTK 350mm		1101-7011-0071-000
TF43 NiTK 400mm		1101-7011-0081-000
TF 43 LM235Z xx	passive	IP54
TF43 LM235Z 50mm		1101-7012-1011-000
TF43 LM235Z 100mm		1101-7012-1021-000
TF43 LM235Z 150mm		1101-7012-1031-000
TF43 LM235Z 200mm		1101-7012-1041-000
TF43 LM235Z 250mm		1101-7012-1051-000
TF43 LM235Z 300mm		1101-7012-1061-000
TF43 LM235Z 350mm		1101-7012-1071-000
TF43 LM235Z 400mm		1101-7012-1081-000
TF 43 NTC 1,8K xx	passive	IP54
TF43 NTC1,8K 50mm		1101-7011-2011-000
TF43 NTC1,8K 100mm		1101-7011-2021-000
TF43 NTC1,8K 150mm		1101-7011-2031-000
TF43 NTC1,8K 200mm		1101-7011-2041-000
TF43 NTC1,8K 250mm		1101-7011-2051-000
TF43 NTC1,8K 300mm		1101-7011-2061-000
TF43 NTC1,8K 350mm		1101-7011-2071-000
TF43 NTC1,8K 400mm		1101-7011-2081-000
TF 43 NTC10K xx	passive	IP54
TF43 NTC10K 50mm		1101-7011-5011-000
TF43 NTC10K 100mm		1101-7011-5021-000
TF43 NTC10K 150mm		1101-7011-5031-000
TF43 NTC10K 200mm		1101-7011-5041-000
TF43 NTC10K 250mm		1101-7011-5051-000
TF43 NTC10K 300mm		1101-7011-5061-000
TF43 NTC10K 350mm		1101-7011-5071-000
TF43 NTC10K 400mm		1101-7011-5081-000
TF 43 NTC20K xx	passive	IP54
TF43 NTC20K 50mm		1101-7011-6011-000
TF43 NTC20K 100mm		1101-7011-6021-000
TF43 NTC20K 150mm		1101-7011-6031-000
TF43 NTC20K 200mm		1101-7011-6041-000
TF43 NTC20K 250mm		1101-7011-6051-000
TF43 NTC20K 300mm		1101-7011-6061-000
TF43 NTC20K 350mm		1101-7011-6071-000
TF43 NTC20K 400mm		1101-7011-6081-000



Basic device
(without accessories)



Immersion / screw-in
temperature sensor
with immersion sleeve
(accessories)



Duct temperature sensor
with mounting flange
(accessories)

THERMASGARD® TM 43

Temperature measuring transducer (basic device),
calibratable, with multi-range switching


Type / WG01B	Output	Item No.
TM 43 - U xx	active	IP 54
TM43-U 50mm	0 -10 V	1101-7111-0019-900
TM43-U 100mm	0 -10 V	1101-7111-0029-900
TM43-U 150mm	0 -10 V	1101-7111-0039-900
TM43-U 200mm	0 -10 V	1101-7111-0049-900
TM43-U 250mm	0 -10 V	1101-7111-0059-900
TM43-U 300mm	0 -10 V	1101-7111-0069-900
TM 43 - U LCD xx	active	IP 54 (display)
TM43-U 50mm LCD	0 -10 V	1101-7111-2019-900
TM43-U 100mm LCD	0 -10 V	1101-7111-2029-900
TM43-U 150mm LCD	0 -10 V	1101-7111-2039-900
TM43-U 200mm LCD	0 -10 V	1101-7111-2049-900
TM43-U 250mm LCD	0 -10 V	1101-7111-2059-900
TM43-U 300mm LCD	0 -10 V	1101-7111-2069-900
TM 43 - I xx	active	IP 54
TM43-I 50mm	4...20 mA	1101-7112-0019-900
TM43-I 100mm	4...20 mA	1101-7112-0029-900
TM43-I 150mm	4...20 mA	1101-7112-0039-900
TM43-I 200mm	4...20 mA	1101-7112-0049-900
TM43-I 250mm	4...20 mA	1101-7112-0059-900
TM43-I 300mm	4...20 mA	1101-7112-0069-900
TM 43 - I LCD xx	active	IP 54 (display)
TM43-I 50mm LCD	4...20 mA	1101-7112-2019-900
TM43-I 100mm LCD	4...20 mA	1101-7112-2029-900
TM43-I 150mm LCD	4...20 mA	1101-7112-2039-900
TM43-I 200mm LCD	4...20 mA	1101-7112-2049-900
TM43-I 250mm LCD	4...20 mA	1101-7112-2059-900
TM43-I 300mm LCD	4...20 mA	1101-7112-2069-900

ACCESSORIES

for basic device TF43/TM43



Type / WG01B		Item No.
Immersion sleeves	p_{max} (static)	
TH08-MS-G xx	(T_{max} +150 °C)	polished brass
TH08-MS-G 50MM	10 bar	7100-0017-0010-132
TH08-MS-G 100MM	10 bar	7100-0017-0020-132
TH08-MS-G 150MM	10 bar	7100-0017-0030-132
TH08-MS-G 200MM	10 bar	7100-0017-0040-132
TH08-MS-G 250MM	10 bar	7100-0017-0050-132
TH08-MS-G 300MM	10 bar	7100-0017-0060-132
TH08-MS-G 350MM	10 bar	7100-0017-0070-132
TH08-MS-G 400MM	10 bar	7100-0017-0080-132
TH08-VA xx	(T_{max} +600 °C)	stainless steel V4A (1.4571)
TH08-VA 50MM	40 bar	7100-0012-0010-132
TH08-VA 100MM	40 bar	7100-0012-0020-132
TH08-VA 150MM	40 bar	7100-0012-0030-132
TH08-VA 200MM	40 bar	7100-0012-0040-132
TH08-VA 250MM	40 bar	7100-0012-0050-132
TH08-VA 300MM	40 bar	7100-0012-0060-132
TH08-VA 350MM	40 bar	7100-0012-0070-132
TH08-VA 400MM	40 bar	7100-0012-0080-132
Mounting flanges		plastic
MF-15-K	Ø 15,2 mm	(T_{max} +100 °C)
		7100-0032-0000-000

Range of preferential items permanently available from stock
in standard design with S+S company logo

THERMASGARD® ATF 01

Outside temperature sensors / wet room temperature sensors

Type / WG03B	Output	Item No.
ATF 01 xx	passive	IP 54
ATF01 Pt1000		1101-1030-5001-000
ATF01 Ni1000		1101-1030-9001-000
ATF01 NiTK		1101-1031-0001-000
ATF01 LM235Z		1101-1032-1001-000
ATF01 NTC1,8K		1101-1031-2001-000
ATF01 NTC10K		1101-1031-5001-000
ATF01 NTC20K		1101-1031-6001-000



THERMASGARD® ATM2-SD

Outside temperature / wet room temperature measuring transducers
calibratable, with multi-range switching

Type / WG01B	Output	Item No.
ATM 2 - SD	active	IP 54
ATM2-SD-U	0 -10 V	1101-1191-0009-900
ATM2-SD-I	4...20 mA	1101-1192-0009-900



THERMASGARD® ALTF 02

Surface contact temperature sensors / tube contact temperature sensors,
compact variant

Type / WG03B	Output	Item No.
ALTF02 xx	passive	IP 54
ALTF02 Pt1000		1101-1010-5001-000
ALTF02 Ni1000		1101-1010-9001-000
ALTF02 NiTK		1101-1011-0001-000
ALTF02 LM235Z		1101-1012-1001-000
ALTF02 NTC1,8K		1101-1011-2001-000
ALTF02 NTC10K		1101-1011-5001-000
ALTF02 NTC20K		1101-1011-6001-000



THERMASGARD® ALTM1-SD

Surface contact / tube contact temperature measuring transducers,
compact variant,
calibratable, with multi-range switching

Type / WG01B	Output	Item No.
ALTM1 - SD	active	IP 54
ALTM1-SD-U	0 -10 V	1101-6141-0219-920
ALTM1-SD-I	4...20 mA	1101-6142-0219-920



THERMASGARD® ALTF 1

Surface contact temperature sensors / tube contact temperature sensors,
with detached sensor head,
(L = 50 mm, cable material: PVC, cable length: 1.5 m, without housing)

Type / WG03B	Output	Item No.
ALTF 1 xx	passive	IP65
ALTF1 Pt1000 PVC 1,5M		1101-6020-5211-110
ALTF1 Ni1000 PVC 1,5M		1101-6020-9211-110
ALTF1 NiTK PVC 1,5M		1101-6021-0211-110
ALTF1 LM235Z PVC 1,5M		1101-6022-1211-110
ALTF1 NTC1,8K PVC 1,5M		1101-6021-2211-110
ALTF1 NTC10K PVC 1,5M		1101-6021-5211-110
ALTF1 NTC20K PVC 1,5M		1101-6021-6211-110

THERMASGARD® ALTM2-SD

Surface contact / tube contact temperature measuring transducers,
with detached sensor head,
calibratable, with multi-range switching
(L = 50 mm, cable material: silicone, cable length: 1.5 m, with housing)

Type / WG01B	Output	Item No.
ALTM2-SD	active	IP54
ALTM2-SD-U	0 -10 V	1101-6151-0219-920
ALTM2-SD-I	4...20 mA	1101-6152-0219-920

THERMASGARD® HTF 50

Sleeve temperature sensors / cable temperature sensors
(L = 50 mm, cable material: PVC, cable length: 1.5 m, without housing)

Type / WG03B	Output	Item No.
HTF 50 xx	passive	IP65
HTF50 Pt1000 PVC 1,5M		1101-6030-5211-110
HTF50 Ni1000 PVC 1,5M		1101-6030-9211-110
HTF50 NiTK PVC 1,5M		1101-6031-0211-110
HTF50 LM235Z PVC 1,5M		1101-6032-1211-110
HTF50 NTC1,8K PVC 1,5M		1101-6031-2211-110
HTF50 NTC10K PVC 1,5M		1101-6031-5211-110
HTF50 NTC20K PVC 1,5M		1101-6031-6211-110

THERMASGARD® HFTM-SD

Sleeve sensors with temperature measuring transducer,
calibratable, with multi-range switching
(L = 50 mm, cable material: PVC, cable length: 1.5 m, with housing)

Type / WG01B	Output	Item No.
HFTM-SD	active	IP54
HFTM-SD-U	0 -10 V	1101-6161-0219-920
HFTM-SD-I	4...20 mA	1101-6162-0219-920



Range of preferential items permanently available from stock
in standard design with S+S company logo

THERMASGARD® RTF1-SD

Room temperature sensors without operating elements

Type/WG03B	Output	Item No.
RTF1-SD xx	passive	IP30
RTF1-SD Pt1000		1101-40D0-5000-000
RTF1-SD Ni1000		1101-40D0-9000-000
RTF1-SD NiTK		1101-40D1-0000-000
RTF1-SD LM235Z		1101-40D2-1000-000
RTF1-SD NTC1,8K		1101-40D1-2000-000
RTF1-SD NTC10K		1101-40D1-5000-000
RTF1-SD NTC10K (B=3695K)		1101-40D1-9000-000
RTF1-SD NTC20K		1101-40D1-6000-000

THERMASGARD® RTM1-SD

Room temperature measuring transducers without operating elements

Type/WG01B	Output	Item No.
RTM1-SD	active	IP30
RTM1-SD-U	0 -10 V	1101-41D1-0000-200
RTM1-SD-I	4...20 mA	1101-41D2-0000-200

THERMASGARD® MWTF-SD

Mean value / rod / duct temperature sensor
including mounting flange
(Measuring rod: reinforced thermoplastic tube, NL = 3m / 6m)

Type/WG03B	Output	Item No.
MWTF-SD xx	passive	IP54
MWTF-SD Pt1000 3m		1101-3050-5231-200
MWTF-SD Pt1000 6m		1101-3050-5261-200

THERMASGARD® MWTM-SD

Mean value / rod / duct temperature measuring transducer,
including mounting flange, calibratable, with multi-range switching
(Measuring rod: reinforced thermoplastic tube, NL = 3m / 6m)

Type/WG01B	Output	Item No.
MWTM-SD-U	active	IP54
MWTM-SD-U 3m	0 -10 V	1101-3131-0239-90K
MWTM-SD-U 6m	0 -10 V	1101-3131-0269-90K
MWTM-SD-I	active	IP54
MWTM-SD-I 3m	4...20 mA	1101-3132-0239-90K
MWTM-SD-I 6m	4...20 mA	1101-3132-0269-90K

THERMASREG® FST

Frost protection thermostats, mechanical, one-step,
with switching output
(length of capillary 3m / 6m, incl. mounting clamps)

Type/WG03B	Output	Item No.
FST-xxD	switching	IP65
FST-1D 6m		1102-1021-0102-000
FST-5D 3m		1102-1022-0102-000





HYGRASGARD® RFTF - SD

Room humidity and temperature sensors ($\pm 2\%$),
calibratable

Type / WG01B	Output	Item No.
RFTF-SD	active (2x)	IP30
RFTF-SD-U	0-10 V	1201-41D1-1000-000
RFTF-SD-I	4...20 mA	1201-41D2-1000-000



HYGRASGARD® KFTF - SD

Duct humidity and temperature sensors ($\pm 2\%$),
including mounting flange,
calibratable, with multi-range switching

Type / WG01B	Output	Item No.
KFTF-SD	active (2x)	IP54
KFTF-SD-U	0-10 V	1201-3181-1000-029



HYGRASGARD® AFTF - SD

On-wall humidity and temperature sensors ($\pm 2\%$),
calibratable, with multi-range switching

Type / WG01B	Output	Item No.
AFTF-SD	active (2x)	IP65
AFTF-SD-A	0-10 V / 4...20 mA	1201-112E-1000-100
(automatically via AOS)		



HYGRASREG® KW - SD

Condensation control switches
including strap

Type / WG01B	Output	Item No.
KW-SD	switching	IP54
KW-W-SD	changeover contact	1202-1075-0001-020

Range of preferential items permanently available from stock in standard design with S+S company logo

PREMASGARD® 212x-SD

Pressure, differential pressure and volume flow measuring transducers, with/without display, including connection set, adjustable, calibratable, with multi-range switching

Type / WG01B	Output	Item No.
max. - 1000...+ 1000 Pa	active	IP 54
PREMASGARD 2121-SD	0-10 V / 4...20 mA	1301-11B7-0010-000
PREMASGARD 2121-SD LCD (Display)	0-10 V / 4...20 mA	1301-11B7-2010-000
max. - 5000...+ 5000 Pa	active	IP 54
PREMASGARD 2125-SD	0-10 V / 4...20 mA	1301-11B7-0050-000
PREMASGARD 2125-SD LCD (Display)	0-10 V / 4...20 mA	1301-11B7-2050-000
max. - 100...+ 100 Pa	active	IP 54
PREMASGARD 2120-SD	0-10 V / 4...20 mA	1301-11B7-0110-000
PREMASGARD 2120-SD LCD (Display)	0-10 V / 4...20 mA	1301-11B7-2110-000



PREMASREG® DS 2

Mechanical differential pressure switches for air, with/without connection set

Type / WG03B	Pressure range	Item No.
DS2 incl. connection set		IP 54
DS-205 F	20 ... 300 Pa	1302-4026-0000-000
DS-205 B	50 ... 500 Pa	1302-4022-0000-000
DS-205 D	100 ... 1000 Pa	1302-4027-0000-000
DS-205 E	500 ... 2000 Pa	1302-4028-0000-000
DS2 without connection set		IP 54
DS-205 F	20 ... 300 Pa	1302-4026-1000- M40
DS-205 B	50 ... 500 Pa	1302-4022-1000- M40
DS-205 D	100 ... 1000 Pa	1302-4027-1000- M40
DS-205 E	500 ... 2000 Pa	1302-4028-1000- M40

M40 = Special price per piece in the multi-pack (40 pieces)



AERASGARD® KC02-SD

Duct CO2 sensors, including mounting flange

Type / WG02B	Output	Item No.
KC02-SD	active	IP 65
KC02-SD-U	0-10 V	1501-3160-1001-600



AERASGARD® RC02-SD

Room CO2 sensors, self-calibrating

Type / WG02B	Output	Item No.
RC02-SD	active	IP 30
RC02-SD-U	0-10 V	1501-61A0-1001-200

