RT2E

Compact temperature switch explosion proof RT2-##.##.###C#

Overview

- Excellent repeatability
- Dead band adjustment for regulation
- Fix dead band for control
- Light weight
- Explosion proof Hazardous areas 1, 2, 21, 22



Picture similar



Technical data	
Housing	
Protection rating (EN 60529)	IP66
Case material	Grey painted, Aluminum
Mounting	Wall mounting, 2 x M6 x 16 screws
Scale	Internal graduated scale
Bulb	Stainless steel 1.4404 / AISI 316L
Performance	
Min. temperature range	-46°C +0°C
Max. temperature range	+160°C +250°C
Repeatability	± 1 % FS
Temperature	
Ambient temperature	-20°C +70°C (T5) -20°C +60°C (T6)
Storage temperature	-40°C +40°C ,Code 40 -40°C +60°C ,Code 60 -40°C +70°C, other codes
Media temperature	-46°C +250°C, depends on the scale

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el 1.4404 / AISI 316L	_
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С	Ad
250°C	W
	Te
°C (T5)	Αŗ
)°C (T6)	AT
°C ,Code 40	ΑT
°C ,Code 60	,
°C, other codes	
60°C, depends on the scale	

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These devices must be used as instruments that provide electrical information according to the value of the input variable. They are not intended to be used as a safety accessory. It is the responsibility of the user to check the compatibility of the device with its intended use.

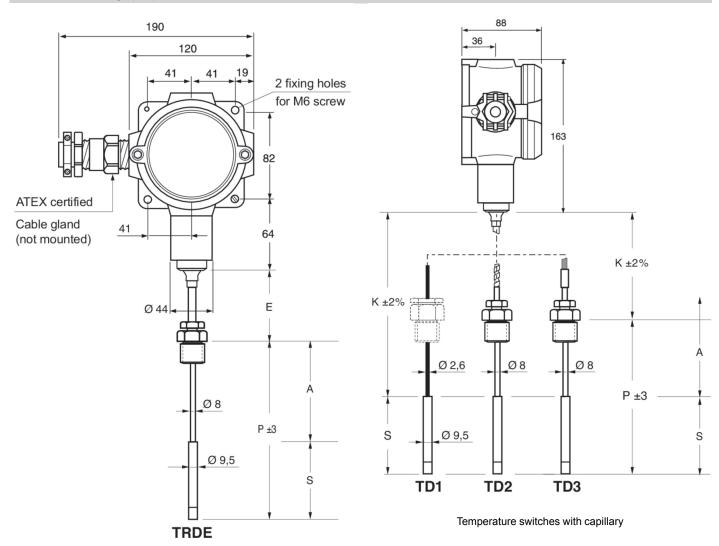
Wetted parts	
Process connection material	Stainless steel 1.4404 / AISI 316L
Electrical data	
Electrical connection	Via internal terminal block with cable gland 3/4 NPT (ATEX/IECEx certified) for Ø 7 to 12 mm
Ground connection	Via internal or external terminal block
Adjustment	Internal adjustment possible for set point and deadband
Weight	
Temperature switch	2000 g + transmission
Approval / Conformities	
ATEX/IECEx Certificate	LCIE 02 ATEX 6219X IECEx LCIE 15.0059X
ATEX/IECEx	ATEX directive 2014/34/UE Ex II 2 G Further information can be found in the ATEX approval



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Dimensional drawings (mm)

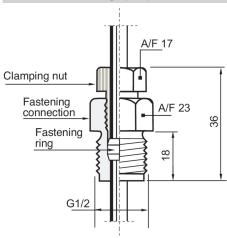


Direct mount temperature switches

- S = Bulb length (temperature sensitive part)
- A = Additional stem length (min. 25 mm)
- P = Immersion length (P = S + A)
- K = Capillary length (only TD1, TD2, TD3)
- E = Extension between process connection and housing only TRDE1 and TRDE2

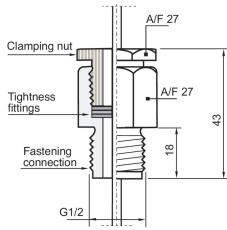
For version TD1 there is no additional stem length (A = 0). The sliding connection is mounted on the capillary.

Dimensional drawings (mm)



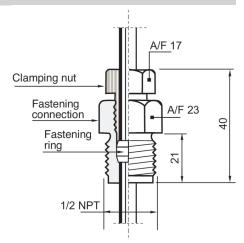
Stainless steel sliding male connection: G 1/2 (TD2/3, TRDE1/2)

After tightening of the clamping nut, the stem is fixed in the process connection. Tight up to 40 bar.



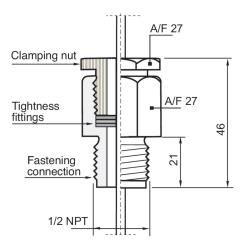
Stainless steel sliding male connection: G 1/2 (TD1)

Waterproof after tightening mounted on the capillary.



Stainless steel sliding male connection: 1/2 NPT (TD2/3, TRDE1/2)

After tightening of the clamping nut, the stem is fixed in the process connection. Tight up to 40 bar.



Stainless steel sliding male connection: 1/2 NPT (TD1)

Waterproof after tightening mounted on the capillary.

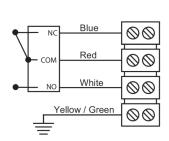
	Capillary	Code	40	41	42	43	44	45	46	48
TRDE1	n/a	S / mm	100	100	100	100	n/a	100	n/a	n/a
TRDE2	n/a	S/mm	100	100	100	100	100	100	100	100
TD1, TD2, TD3	K = 14 m	S/mm	100	100	100	100	100	100	100	100
TD1, TD2, TD3	K = 57 m	S/mm	100	150	150	100	100	150	100	100
TD1, TD2, TD3	K = 810 m	S/mm	100	200	200	100	100	200	100	100

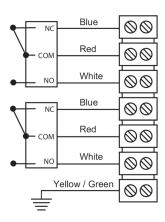
Bulb length (S) according to the capillary length (K) and the temperature range (code) Versions with S = 150 mm or S = 200 mm are not feasible with P = 150 mm

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Electrical connection





1 SPDT

2 SPDT

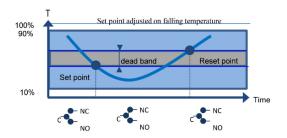
-20°C ≤ Ta ≤ +70°C	Dust IP6x	Gases
	T° surface	Class
Ta =60°C	80℃	T6
Ta = 70℃	95℃	T5

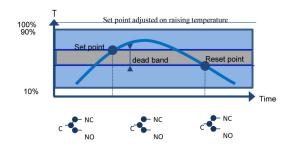
 $\frac{Important}{must \ not \ exceed \ 5 \ W}$

Hazardous areas: zone 1, 2, 21, 22

All necessary measures must be taken by the user, to avoid the calorific transfer from the fluid to the apparatus head increasing the head's temperature to such that it reaches the self-ignition temperature of the gas in which it is used.

Principle



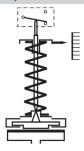


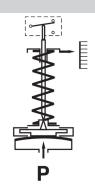
RT2E

Compact temperature switch explosion proof

RT2-##.##.##C#

Principle





A vapour filled flexible sensing element actuates a microswitch by means of a piston. The set point is adjusted by means of a compressible spring installed in opposition.

Set point and reset point must be between 10% and 90% of the selected scale.

Standard factory adjustment

Setpoint at 50% of the scale on falling temperature.

Customer specific factory adjustment (option SETP)

The following specifications have to be given with the order:

- Setpoint value
- · Adjustment on falling or raising temperature
- Dead band value (as needed) when using an adjustable dead band switch (not for RT2Y)

Adjustable ranges

				Micro-switch dead band "								
Scale T max		Adjustable	dead band	Fixed dead band								
	Code	R			L	М	- P	U (2 x SPDT)				
				7.0		10%	90%	10%	90%	10%	90%	10%
°C °C	°C	°C	°C	°C °C		°C °C		°C				
-46 0	40	40	4 - 7.5	2.5 - 6.5	1	1	5	4	5	5		
-20 20	60	41	2.5 - 5.5	2 - 6.5	1	1	5	4	5	5		
0 45	80	42	3 - 6	2.5 - 7	1	0.5	3.5	3	5	2.5		
40 120	145	43	5.5 - 10.5	3 - 8.5	1.5	1	6	6	7.5	5		
100 180	190	44	6 - 12	4 - 7.5	1.5	1	7	5.5	7.5	5		
20 90	120	45	6.5 - 12.5	4 - 8	2	1.5	11	11	10	7.5		
160 250	290	46	6 - 11	4 - 11	1.5	1	6.5	5	7.5	5		
70 150	175	48	9.5 - 18.5	5.5 - 10.5	1.5	1.5	11	8	7.5	7.5		

1) The value of the dead band is depending on the value of the set point. This table contains the dead band values for set point adjustment at 10% and 90% of the selected scale. For adjustable dead band the lower value correspond to the dead band spring totally released and the higher correspond to the dead band spring fully tensed. For other set points the dead band value can be calculated by linear interpolation between the values at . 10% and 90%.



RT2E

Compact temperature switch explosion proof RT2-##.##.###C#

Switch code	R	L	M	Р	U
	Adjustable dood		Fixed de	ad band	
Туре	Adjustable dead band	Standard	Gold contact	Ultra sensitive	Double
6 Vdc	0.4 10 A	N/A	10 50 mA	0.4 4 A	0.4 10 A
12 Vdc	0.4 10 A	N/A	10 50 mA	0.4 4 A	0.4 10 A
24 Vdc	0.4 5 A	N/A	10 50 mA	0.4 4 A	0.4 6 A
30 Vdc	0.4 5 A	N/A	10 50 mA	0.4 2 A	0.4 6 A
48 Vdc	0.4 5 A	N/A	10 50 mA	N/A	0.4 6 A
110 Vdc	0.1 0.5 A	N/A	10 50 mA	N/A	0.4 0.5 A
220 Vdc	0.1 0.25 A	N/A	10 50 mA	N/A	0.1 0.25 A
115 Vac	0.4 10 A	0.4 10 A	10 50 mA	N/A	0.4 10 A
250 Vac	0.2 10 A	0.2 10 A	N/A	N/A	0.2 10 A
Dielectric rigidity between contacts and ground	2000 V	2000 V	2000 V	1000 V	2000 V

RT2E

Compact temperature switch explosion proof

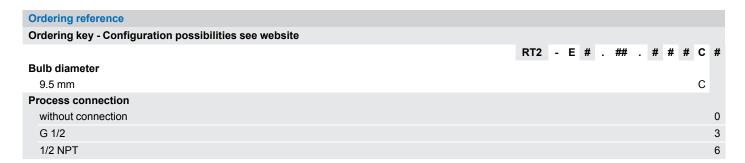
RT2-##.##.###C#

Ordering reference Ordering key - Configuration possibilities see website RT2 -E # **Product** RT2 RT2 **ATEX** ATEX II 2 G D Е Ex d IIC T6 or T5 Gb Ex tb IIIC T80°C or T95°C Db T°amb:-20°C to +60°C (T6 or T80°C) or -20°C to +70°C (T5 or T95°C) HAZARDOUS AREA:1,2,21,22 Type of Microswitch 1xSPDT Standard change-over 1 gold contact changeover switch Μ 1 hermetically ultra sensitive changeover switch 1xSPDT adjust. Dead band R simultaneous U Temperature range 40 -46 ... 0°C -20 ... 20°C 41 $0 \dots 45^{\circ} C$ 42 40 ... 120°C 43 100 ... 180°C⁽¹⁾ 44 20 ... 90°C 45 160 ... 250°C(1) 46 70 ... 150°C⁽¹⁾ 48 Type of design without protection with st.steel protection with st.steel protection and PVC coating 3 TRDE1 rigid stem, E = 65 mm⁽²⁾ С TRDE2 rigid stem, E = 120 mm D Length of capillary 0 without capillary 1 m 1 2 m 2 3 m 3 4 m 4 5 m 5 6 m 6 7 m 7 8 m 8 9 m 9 Α Immersion lenght S+ A min (see datasheet) 0 150 mm⁽³⁾ 3 250 mm⁽³⁾ 4 400 mm⁽³⁾ 5 600 mm⁽³⁾ 6 1000 mm⁽³⁾ D

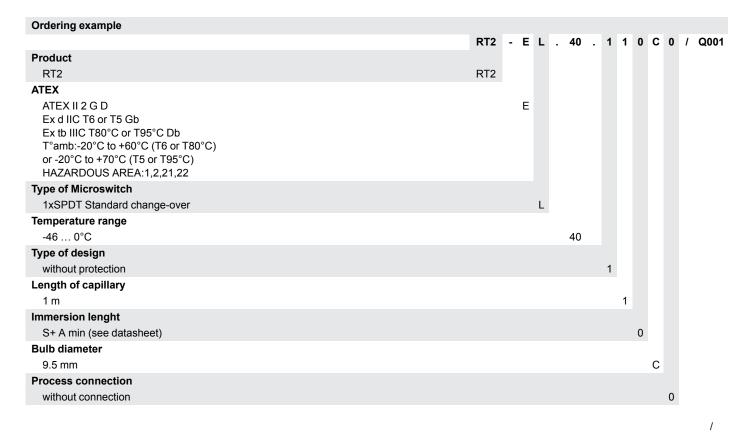
RT2E

Compact temperature switch explosion proof

RT2-##.##.###C#



- (1) Not for TRDE1
- (2) For temperature measurement below 120 °C
- (3) Not for TD1



Certificate

Declaration of compliance with the order 2.1 according to EN 10204

Options			
Setpoint factory adjusted	SETP	2.2 Certificate	Q002
Mounting on 2 pipe	0407	3.1 Material certificate	Q003
stainless steel label wired*	9941	3.1 Certif. setpoints adjust.	Q011
2.1 Certificate	Q001		

RT2N

Compact temperature switch RT2-##.##.###C#

Overview

- Excellent repeatability
- Dead band adjustment for regulation
- Fix dead band for control
- Resistant to accidental overtemperature
- Light weight



Picture similar

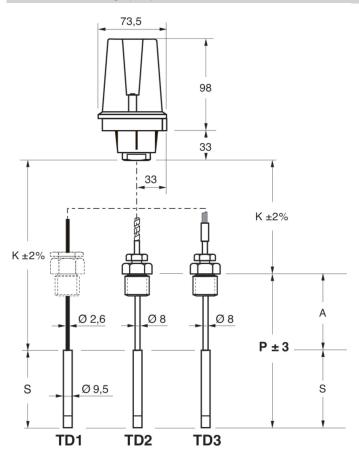
Technical data	
Housing	
Protection rating (EN 60529)	IP66
Body	Black painted, zamak
Case material	Blue painted, zamak
Mounting	Wall mounting, 2 x M5 screws
Scale	Internal graduated scale
Bulb	Stainless steel 1.4404 / AISI 316L
Performance	
Min. temperature range	-46°C +0°C
Max. temperature range	+160°C +250°C
Repeatability	± 1 % FS
Temperature	
Ambient temperature	-30°C +70°C
Storage temperature	-40°C +40°C ,Code 40 -40°C +60°C ,Code 60 -40°C +70°C , other codes

Temperature	
Media temperature	-46°C +250°C, depends on the scale
Wetted parts	
Process connection material	Stainless steel 1.4404 / AISI 316L
Electrical data	
Electrical connection	Via internal terminal block with cable gland for Ø 5.5 to 8.5 mm
CE conformity	Low Voltage Directive 2014/35/UE
Ground connection	Via internal terminal block
Adjustment	Internal adjustment possible for set point and deadband
Weight	
Temperature switch	960 g + transmission

Remarks

• These devices must be used as instruments that provide electrical information according to the value of the input variable. They are not intended to be used as a safety accessory. It is the responsibility of the user to check the compatibility of the device with its intended use.

Dimensional drawings (mm)



2 grooves 5,5

68

E

A

P ± 3

TRDE 1/2

Temperature switches with capillary

Direct mount temperature switches

S = Bulb length (temperature sensitive part)

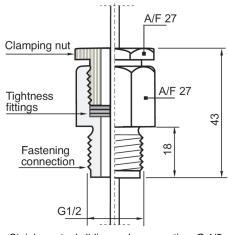
A = Additional stem length (min. 25 mm)

P = Immersion length (P = S + A)

K = Capillary length (only TD1, TD2, TD3)

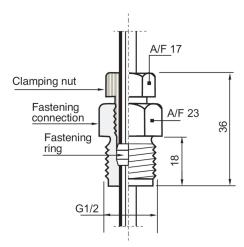
E = Extension between process connection and housing only TRDE1 and TRDE2

For version TD1 there is no additional stem length (A = 0). The sliding connection is mounted on the capillary.



Stainless steel sliding male connection: G 1/2 (TD1)

Waterproof after tightening mounted on the capillary.



Stainless steel sliding male connection: G 1/2 (TD2/3, TRDE1/2)

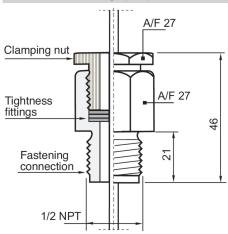
After tightening of the clamping nut, the stem is fixed in the process connection. Tight up to 40 bar.

RT2N

Compact temperature switch

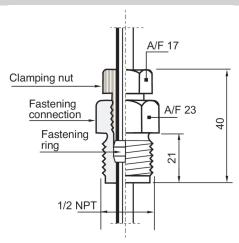
RT2-##.##.###C#

Dimensional drawings (mm)



Stainless steel sliding male connection: 1/2 NPT (TD1)

Waterproof after tightening mounted on the capillary.



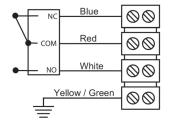
Stainless steel sliding male connection: 1/2 NPT (TD2/3, TRDE1/2)

After tightening of the clamping nut, the stem is fixed in the process connection. Tight up to 40 bar.

	Capillary	Code	40	41	42	43	44	45	46	48
TRDE1	n/a	S/mm	100	100	100	100	n/a	100	n/a	n/a
TRDE2	n/a	S/mm	100	100	100	100	100	100	100	100
TD1, TD2, TD3	K = 14 m	S/mm	100	100	100	100	100	100	100	100
TD1, TD2, TD3	K = 57 m	S/mm	100	150	150	100	100	150	100	100
TD1, TD2, TD3	K = 810 m	S/mm	100	200	200	100	100	200	100	100

Bulb length (S) according to the capillary length (K) and the temperature range (code) Versions with S=150 mm or S=200 mm are not feasible with P=150 mm

Electrical connection

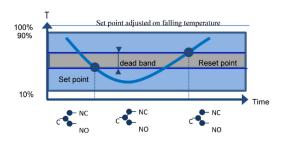


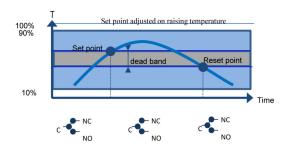
1 SPDT

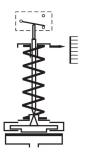
RT2N

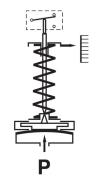
Compact temperature switch RT2-##.###.C#

Principle









A vapour filled flexible sensing element actuates a microswitch by means of a piston. The set point is adjusted by means of a compressible spring installed in opposition.

Set point and reset point must be between 10% and 90% of the selected scale.

Standard factory adjustment

Setpoint at 50% of the scale on falling temperature.

Customer specific factory adjustment (option SETP)

The following specifications have to be given with the order:

- Setpoint value
- Adjustment on falling or raising temperature
- Dead band value (as needed) when using an adjustable dead band switch (not for RT2Y)

RT2N

Compact temperature switch RT2-##.##.###C#

Adjustable ranges

				N	/licro-switch de	ad band "			
Scale T max			Adjustable	dead band	Fixed dead band				
		Code		R		L	M - P		
00			10%	90%	10%	90%	10%	90%	
°C	°C		°C	°C	°C	°C	°C	°C	
-46 0	40	40	4 7.5	2.5 6.5	1	1	5	4	
-20 20	60	41	2.5 5.5	2 6.5	1	1	5	4	
0 45	80	42	3 6	2.5 7	1	0.5	3.5	3	
40 120	145	43	5.5 10.5	3 8.5	1.5	1	6	6	
100 180	190	44	6 12	4 7.5	1.5	1	7	5.5	
20 90	120	45	6.5 12.5	4 8	2	1.5	11	11	
160 250	290	46	6 11	4 11	1.5	1	6.5	5	
70 150	175	48	9.5 18.5	5.5 10.5	1.5	1.5	11	8	

¹⁾ The value of the dead band is depending on the value of the set point. This table contains the dead band values for set point adjustment at 10% and 90% of the selected scale. For adjustable dead band the lower value corresponds to the dead band spring totally released and the higher corresponds to the dead band spring fully tensed . For other set points the dead band value can

Micro switch characteristics

be calculated by linear interpolation between the values at 10% and 90%.

Switch code	R	L	М	Р		
Туре	Adjustable dead band	Fixed dead band				
		Standard	Gold contact	Ultra sensitive		
6 Vdc	0.4 10 A	N/A	10 50 mA	0.4 4 A		
12 Vdc	0.4 10 A	N/A	10 50 mA	0.4 4 A		
24 Vdc	0.4 5 A	N/A	10 50 mA	0.4 4 A		
30 Vdc	0.4 5 A	N/A	10 50 mA	0.4 2 A		
48 Vdc	0.4 5 A	N/A	10 50 mA	N/A		
110 Vdc	0.2 0.25 A	N/A	10 50 mA	N/A		
220 Vdc	0.1 0.25 A	N/A	10 50 mA	N/A		
115 Vac	0.4 10 A	0.4 10 A	10 50 mA	N/A		
250 Vac	0.2 10 A	0.2 10 A	N/A	N/A		
Dielectric rigidity between contacts and ground	2000 V	2000 V	2000 V	1000 V		

RT2N

Compact temperature switch

RT2-##.##.###C#

Ordering key - Configuration possibilities see website									
	RT2	- N	#	. ##	-	# #	# #	С	1
Product	DTO								
RT2 ATEX	RT2								
		N.							
without ATEX		N							
Type of Microswitch									
1xSPDT Standard change-over			L						
1 gold contact changeover switch			М						
1 hermetically ultra sensitive changeover switch			Р						
1xSPDT adjust. Dead band			R						
Femperature range -46 0°C				40					
-46 0 C -20 20°C				40					
				41					
0 45°C				42					
40 120°C				43					
100 180°C ⁽¹⁾				44					
20 90°C				45					
160 250°C ⁽¹⁾				46					
70 150°C ⁽¹⁾				48					
Type of design									
without protection						1			
with st.steel protection						2			
with st.steel protection and PVC coating						3			
TRDE1 rigid stem, E = 65 mm ⁽²⁾					(С			
TRDE2 rigid stem, E = 120 mm						D			
ength of capillary									
without capillary						()		
1 m						•			
2 m						2	2		
3 m						3	3		
4 m						_	ļ		
5 m						Ę	5		
6 m						6			
7 m						-			
8 m						8			
9 m						(
10 m							À		
Immersion lenght							`		
S+ A min (see datasheet)							0		
150 mm ⁽³⁾							3		
250 mm ⁽³⁾							4		
600 mm ⁽³⁾									
							6		
1000 mm ⁽³⁾							D		
9.5 mm ⁽³⁾								С	
Process connection									
without connection									(
G 1/2									3
1/2 NPT									6

RT2N

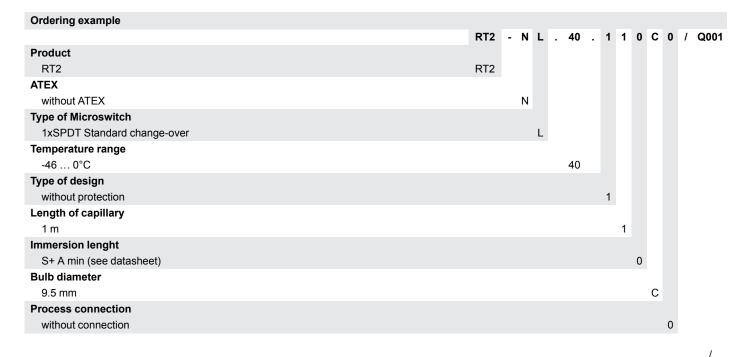
Compact temperature switch

RT2-##.##.###C#

Ordering reference

Ordering key - Configuration possibilities see website

- (1) Not for TRDE1
- (2) For temperature measurement below 120 °C
- (3) Not for TD1



Certificate

Declaration of compliance with the order 2.1 according to EN 10204

Options	
Setpoint factory adjusted	SETP
Mounting on 2 pipe	0407
stainless steel label wired*	9941
HOUSING PREPARED FOR LEAD SEAL	8991

2.1 Certificate	Q001
2.2 Certificate	Q002
3.1 Material certificate	Q003
3.1 Certif. setpoints adjust.	Q011

RT2Y

Compact temperature switch intrinsic safety RT2-##.##.###C#

Overview

- Excellent repeatability
- Fix dead band for control
- Resistant to accidental overtemperature
- Intrinsic safety Hazardous area 0, 1, 2



Picture similar



Technical data	
Housing	
Protection rating (EN 60529)	IP66
Cover	Black painted, zamak
Body	Blue, polyamide PA 6
Mounting	Wall mounting, 2 x M5 screws
Scale	Internal graduated scale
Bulb	Stainless steel 1.4404 / AISI 316L
Performance	
Min. temperature range	-46°C +0°C
Max. temperature range	+160°C +250°C
Repeatability	± 1 % FS
Temperature	
Ambient temperature	-30°C +55°C (T6) -30°C +70°C (T5)
Storage temperature	-40°C +40°C ,Code 40 -40°C +60°C ,Code 60 -40°C +70°C, other codes
Media temperature	-46°C +250°C, depends on the scale

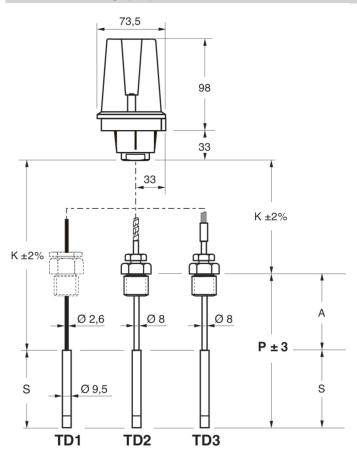
ousing	
rotection rating (EN 0529)	IP66
over	Black painted, zamak
ody	Blue, polyamide PA 6
lounting	Wall mounting, 2 x M5 screws
cale	Internal graduated scale
ulb	Stainless steel 1.4404 / AISI 316L
erformance	
lin. temperature range	-46°C +0°C
lax. temperature range	+160°C +250°C
epeatability	± 1 % FS
emperature	
mbient temperature	-30°C +55°C (T6) -30°C +70°C (T5)
torage temperature	-40°C +40°C ,Code 40 -40°C +60°C ,Code 60 -40°C +70°C, other codes
ledia temperature	-46°C +250°C, depends on the scale

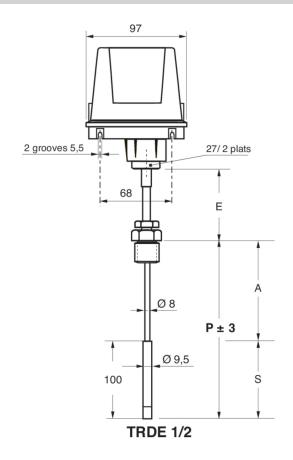
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		m			

These devices must be used as instruments that provide electrical information according to the value of the input variable. They are not intended to be used as a safety accessory. It is the responsibility of the user to check the compatibility of the device with its intended use.

Stainless steel 1.4404 / AISI 316L
Via internal terminal block with cable gland for Ø 5.5 to 8.5 mm
Via internal terminal block
Internal adjustment possible for set point
960 g + transmission
LCIE 03 ATEX 6160X IECEx LCIE 15.0058X
ATEX directive 2014/34/UE Ex I M1 Ex ia I Ma Ex II 2 G Ex ia IIC T6 or T5 Ga Further information can be found in the ATEX approval

Dimensional drawings (mm)





Temperature switches with capillary

Direct mount temperature switches

S = Bulb length (temperature sensitive part)

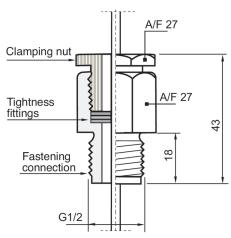
A = Additional stem length (min. 25 mm)

P = Immersion length (P = S + A)

K = Capillary length (only TD1, TD2, TD3)

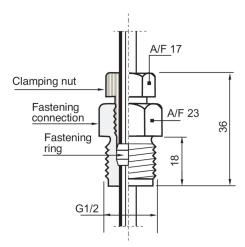
E = Extension between process connection and housing only TRDE1 and TRDE2

For version TD1 there is no additional stem length (A = 0). The sliding connection is mounted on the capillary.



Stainless steel sliding male connection: G 1/2 (TD1)

Waterproof after tightening mounted on the capillary.



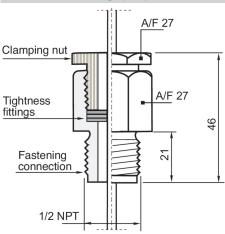
Stainless steel sliding male connection: G 1/2 (TD2/3, TRDE1/2)

After tightening of the clamping nut, the stem is fixed in the process connection. Tight up to 40 bar.

Compact temperature switch intrinsic safety

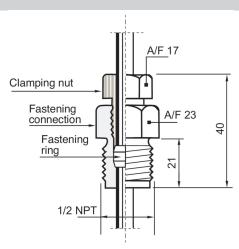
RT2-##.##.##C#

Dimensional drawings (mm)



Stainless steel sliding male connection: 1/2 NPT (TD1)

Waterproof after tightening mounted on the capillary.



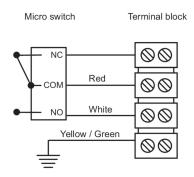
Stainless steel sliding male connection: 1/2 NPT (TD2/3, TRDE1/2)

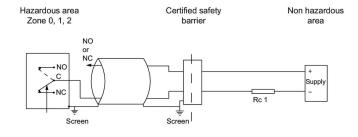
After tightening of the clamping nut, the stem is fixed in the process connection. Tight up to 40 bar.

	Capillary	Code	40	41	42	43	44	45	46	48
TRDE1	n/a	S / mm	100	100	100	100	n/a	100	n/a	n/a
TRDE2	n/a	S / mm	100	100	100	100	100	100	100	100
TD1, TD2, TD3	K = 14 m	S/mm	100	100	100	100	100	100	100	100
TD1, TD2, TD3	K = 57 m	S / mm	100	150	150	100	100	150	100	100
TD1, TD2, TD3	K = 810 m	S/mm	100	200	200	100	100	200	100	100

Bulb length (S) according to the capillary length (K) and the temperature range (code) Versions with S = 150 mm or S = 200 mm are not feasible with P = 150 mm

Electrical connection





For max. ambient temperature according to temperature classes T5 and T6 refer to technical data.

The installation must be made in an intrinsically safe circuit whose certified electrical safety parameters do not exceed any of the values Umax,Imax and Pmax given in the electrical data.

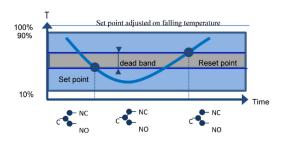
All necessary measures must be taken by the user, to avoid the calorific transfer from the fluid to the apparatus head increasing the head's temperature to such that it reaches the self-ignition temperature of the gas in which it is used.

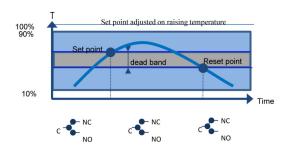
RT2Y

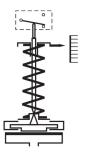
Compact temperature switch intrinsic safety

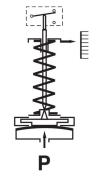
RT2-##.##.##C#

Principle









A vapour filled flexible sensing element actuates a microswitch by means of a piston. The set point is adjusted by means of a compressible spring installed in opposition.

Set point and reset point must be between 10% and 90% of the selected scale.

Standard factory adjustment

Setpoint at 50% of the scale on falling temperature.

Customer specific factory adjustment (option SETP)

The following specifications have to be given with the order:

- Setpoint value
- Adjustment on falling or raising temperature
- Dead band value (as needed) when using an adjustable dead band switch (not for RT2Y)

RT2Y

Compact temperature switch intrinsic safety RT2-##.##.###C#

Adjustable ranges

Scale	T°C max	Code		dead band "
		Code		M
°C	°C		10%	90%
C			°C	°C
-46 0	40	40	5	4
-20 20	60	41	5	4
0 45	80	42	3.5	3
40 120	145	43	6	6
100 180	190	44	7	5.5
20 90	120	45	11	11
160 250	290	46	6.5	5
70 150	175	48	11	8

¹⁾ The value of the dead band is depending on the value of the set point. This table contains the dead band values for set point adjustment at 10% and 90% of the selected scale. For other set points the dead band value can be calculated by linear interpolation between the values at 10% and 90%.

Micro switch characteristics

Switch code	М
Switch code	Gold contact
6 Vdc	10 50 mA
12 Vdc	10 50 mA
24 Vdc	10 50 mA
30 Vdc	10 50 mA
48 Vdc	N/A
110 Vdc	N/A
220 Vdc	N/A
115 Vac	N/A
250 Vac	N/A
Dielectric rigidity between contacts and ground	2000 V

RT2Y

Compact temperature switch intrinsic safety

RT2-##.##.###C#

Ordering key - Configuration possibilities see website								
	RT2	- Y	м.	##	#	#	#	С
Product	DTO							
RT2	RT2							
ATEX ATEX M1 Ex ia Ma ATEX II 1 G Ex ia IIC T6 or T5 Ga HAZARDOUS AREA: 0,1,2		Y						
Type of Microswitch								
1 gold contact changeover switch			М					
Temperature range								
-46 0°C				40				
-20 20°C				41				
0 45°C				42				
40 120°C				43				
100 180°C ⁽¹⁾				44				
20 90°C				45				
160 250°C ⁽¹⁾				46				
70 150°C ⁽¹⁾				48				
Type of design								
without protection					1			
with st.steel protection					2			
with st.steel protection and PVC coating					3			
TRDE1 rigid stem, E = 65 mm ⁽²⁾					С			
TRDE2 rigid stem, E = 120 mm					D			
Length of capillary								
without capillary						0		
1 m						1		
2 m						2		
3 m						3		
4 m						4		
5 m						5		
6 m						6		
7 m						7		
8 m						8		
9 m						9		
10 m						Α		
Immersion lenght								
S+ A min (see datasheet)							0	
150 mm ⁽³⁾							3	
250 mm ⁽³⁾							4	
400 mm ⁽³⁾							5	
600 mm ⁽³⁾							6	
1000 mm ⁽³⁾							D	
Bulb diameter								
9.5 mm								С
Process connection								
without connection G 1/2								



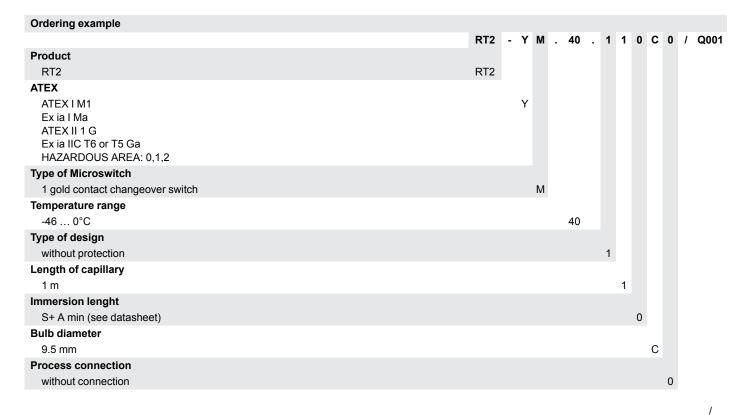
Compact temperature switch intrinsic safety

RT2-##.##.###C#

Ordering reference

Ordering key - Configuration possibilities see website

- (1) Not for TRDE1
- (2) For temperature measurement below 120 °C
- (3) Not for TD1



Certificate

Declaration of compliance with the order 2.1 according to EN 10204

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U	pti	OII	15

SETP 2.1 Certificate Q001
0407 2.2 Certificate Q002
9941 3.1 Material certificate Q003
8991 3.1 Certif. setpoints adjust. Q011
9941 3.1 Material certificate Q0