

Temperature switches, CITEC TA and T7 (ATEX) Series, are very rugged and are used for chemical, petrochemical industries and industrial equipments

ATEX version. 2 simultaneous switches in option

-40°C to 400°C, fixed stem or with capillary

Temperature switches for harsh environments T4 - T7 (ATEX) Series

Product specifications

. Temperature range	-40°C to +400°C
. Max. temperature	see table below
. Stem	316 stainless steel . fixed stem : L 70mm to 300mm, Ø 9.5mm (3/8") . stem with capillary : L 76mm, Ø 9.5mm (3/8")
. Capillary	316 stainless steel, 1.5m to 7.5m
. Switch	1 SPDT switch, 2 switches in option 15A/250Vac, dc rating : contact 24 : 6A/30Vdc contact 20 : 0.4A/120Vdc
. Switch adjustment	by nut inside the enclosure increasing : 15 to 100%FS decreasing : 85 to 0%FS
. Repeatability (at 20°C)	±1%FS
. Ambient temperature	-25°C to 60°C
. Process connection	fixed stem : G1/2, NPT in option stem with capillary : sliding connection G1/2 or NPT on stem or on capillary (sliding connection to order separately)
. Electrical connection	3/4NPT female, supplied with cable gland T4 : plastic gland, order code 896 791 T7 : nickel plated gland, order code 896 790
. Housing	T4 and T7d : epoxy coated black aluminium T7ia : aluminium epoxy coated blue
. Protection	T4 : IP54, IP65 in option, T7 : IP66
. Weight	with fixed stem, T4 : 1.2kg, T7 : 1.7kg with capillary : + 0.3kg



Order codes

T4 Series, general purpose, fixed deadband

Temperature range	Max temperature	Fixed deadband (contact 24)	Fixed stem		Stem L76mm + capillary 3m
			G1/2 L152mm	G1/2 L152mm	
-40 16°C	204°C	1.7°C 4.4°C	296 800	296 800	296 820
-20 40°C	204°C	2.8°C 6.7°C	296 802	296 802	296 822
20 95°C	204°C	4.4°C 8.9°C	296 804	296 804	296 824
65 125°C	204°C	2.8°C 6.7°C	296 806	296 806	296 826
110 190°C	260°C	2.8°C 6.7°C	296 808	296 808	296 828
175 275°C	371°C	4.4°C 8.9°C	296 810	296 810	296 830
260 400°C	482°C	8.9°C 16.7°C	-	-	296 832

NPT : add N at the end of the order code

Supplied without sliding connection

Sliding connection to be ordered separately (G1/2)

On stem : 296 890 On capillary : 296 891

NPT : add N at the end of the order code

Other lengths for the fixed stem

Add X at the end of the order code : L70mm X=1 (not for 175/275°C) / L102mm X=3
L229mm X=5 / L305mm X=7

Other capillary lengths

Add X at the end of the order code : L1.5m X=1 / L4.5m X=3 / L6m X=5 / L7.5m X=7

T4 - T7 (ATEX) Series

T4 Series, narrow fixed deadband

Temperature range	Max temperature	Fixed deadband (contact 20)		Fixed stem G1/2 L152mm	Stem L76mm + capillary 3m
		min	max		
-40 16°C	204°C	0.6°C	1.1°C	296 800F	296 820F
-20 40°C	204°C	0.8°C	1.7°C	296 802F	296 822F
20 95°C	204°C	0.8°C	1.9°C	296 804F	296 824F
65 125°C	204°C	0.8°C	1.7°C	296 806F	296 826F
110 190°C	260°C	0.8°C	1.7°C	296 808F	296 828F
175 275°C	371°C	1.1°C	2.5°C	296 810F	296 830F
260 400°C	482°C	2.2°C	4.4°C	-	296 832F

NPT : add **N** at the end of the order code

Supplied without sliding connection

Sliding connection to be ordered separately (G1/2)

On stem : 296890 On capillary : 296891 NPT : add **N** at the end of the order code

Other lengths for fixed stem or capillary

See the page before

T4 Series, adjustable deadband

Temperature range	Max temperature	Adjustable deadband (contact 50)		Fixed stem G1/2 L152mm	Stem L76mm + capillary 3m
		min	max		
-40 16°C	204°C	0.8°C	3.1°C	296 800R	296 820R
-20 40°C	204°C	1.2°C	4.7°C	296 802R	296 822R
20 95°C	204°C	1.4°C	6.7°C	296 804R	296 824R
65 125°C	204°C	1.2°C	4.7°C	296 806R	296 826R
110 190°C	260°C	1.2°C	4.7°C	296 808R	296 828R
175 275°C	371°C	1.8°C	6.7°C	296 810R	296 830R
260 400°C	482°C	4°C	13.3°C	-	296 832R

NPT : add **N** at the end of the order code

Supplied without sliding connection

Sliding connection to be ordered separately (G1/2)

On stem : 296 890 On capillary : 296 891 NPT : add **N** at the end of the order code

Other lengths for fixed stem or capillary

See the previous page

T7 Series, ATEX version

To order T7 Series, select T4 order code and add the following suffix :

ATEX Version	Suffix
Intrinsically safe : ExII 1GD T85°C IP6X EEx ia IICT4	A
Flameproof enclosure : ExII 2GDEEx d IICT6	D

Sliding connection to be ordered separately (G1/2)

On stem : 296 890 On capillary : 296 891 NPT : add **N** at the end of the order code

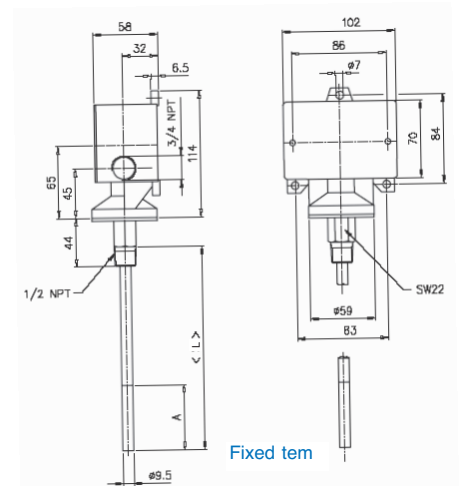
Other lengths for fixed stem or capillary

See the previous page

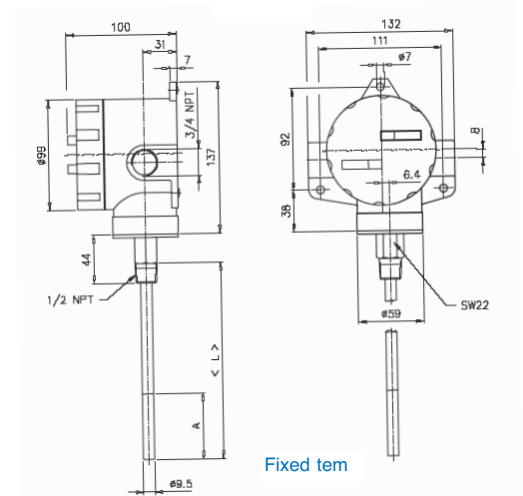
Options

- . Other measuring ranges
- . 2 SPDT switches, simultaneous thresholds, add **S** at the end of order code, not simultaneous : other Series on request
- . Gold contact, under nitrogen hermetically sealed switch
- . Cleaning for oxygen
- . IP65 version, add **P** at the end of the order code

T4



T7



With capillary

