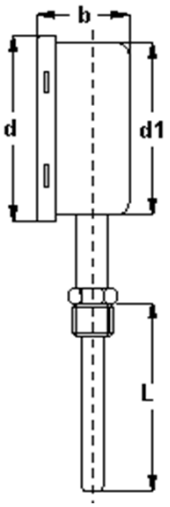
TMX INERT GAS EXPANSION THERMOMETERS

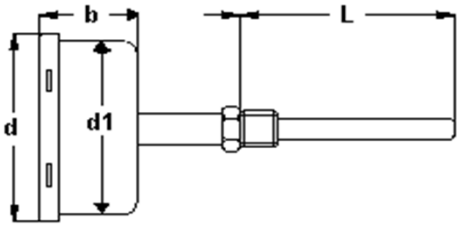
Thermometers gas expansion, full stainless steel construction, for aggressive environments and industrial applications.

Model TD/A1-R direct mounting



RADIAL

Local direct mounting on pipe with radial connection



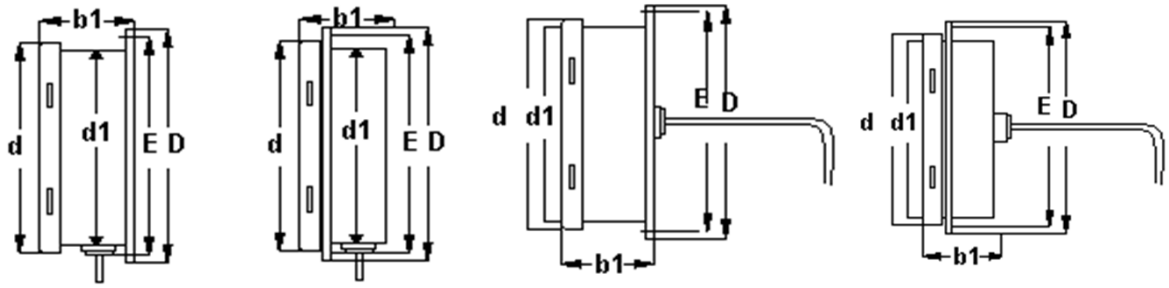
BACK

Local direct mounting with rear fitting

Approximate dimensions type TD / A1-R

DN	b	d	d1	L std
100	48	113	99	100 -150 - 200
150	54	165	149	

Mod. TD/A1-C remote mounting



TYPE 1

Radial mounting on the wall with rear flange

TYPE 2

Radial mounting on the wall with the front flange

TYPE 3

Wall mounting with back flange

TYPE 4

Recessed mounting with front flange

Approximate dimensions type TD/A1-C

DN	b1	d	d1	D	E
100	51	113	99	133	118
150	56	165	149	188	170

TECHNICAL SPECIFICATIONS

Measuring element	Bourdon spring thermally treated
Pointer	black aluminium, micrometer adjustement
Case, ring	304 Stainless steel
Dial	white aluminium, with black markings
Gasket	EPDM
Transparent	glass 3 mm thickness
Protection	IP 54 according to IEC 529 - IP65 filled
Accuracy	Cl. 1 according to EN 13190
Pozzetto	AISI 316
Capillary	Stainless steel

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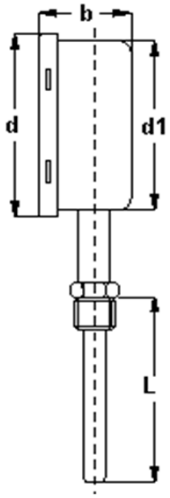
TMXE - ELECTRIC CONTACTS INERT GAS EXPANSION THERMOMETERS

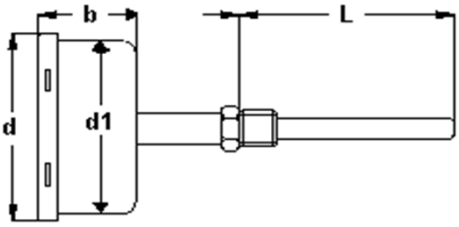
Thermometers gas expansion, full stainless steel construction, for aggressive environments and industrial applications, with electrical contact.

Mod. TD/A1-CE-R Direct mounting



RADIAL

Local direct mounting on pipe with radial connection



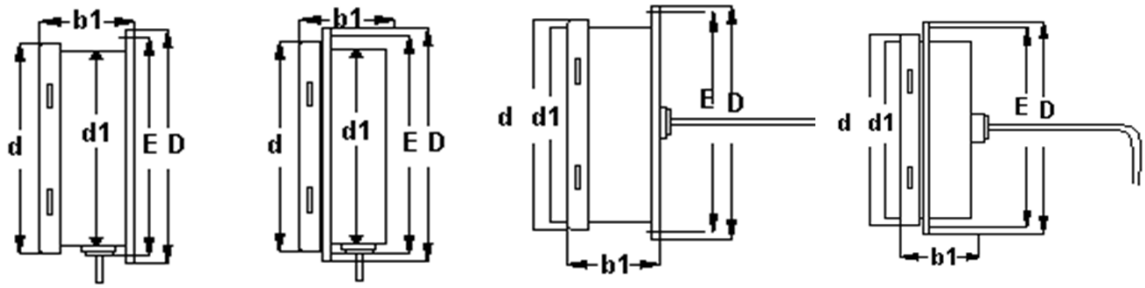
BACK

Local direct mounting with rear fitting

Approximate dimensions type TD/A1-CE-R

DN	b - 1 CE	b - 2 CE	d	d1	L std
100	73	81	113	99	100 -150 - 200
150	83	83	165	149	

Mod. TD/A1-CE-C Remote mounting



TIPO 1

Radial mounting on the wall with rear flange

TIPO 2

Radial mounting on the wall with the front flange

TIPO 3

Wall mounting with back flange

TIPO 4

Panel mounting with front flange

Approximate dimensions type TD/A1-CE-C

DN	b1 - 1CE	b1 - 2CE	d	d1	D	E
100	76	86	113	99	133	118
150	88	88	165	149	188	170

TECHNICAL SPECIFICATIONS

Materials	See TMX Thermometers
Electrical connection	Electric cable section 0.75 mm2 with sheath secured with cable gland; Terminal IP 65 at 3 o 6 poles; Only with cable gland (without connection)
Contact:	Max voltage 250 Volt; admissible Max Load 10 W / 18 VA
Electrical contacts:	Available: Single - Double - Triple - Quadruple Single or double change over

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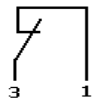
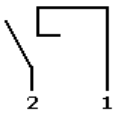
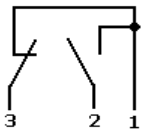
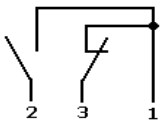
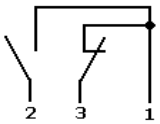
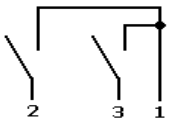
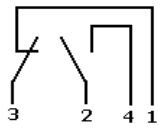
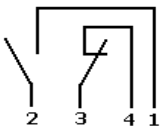
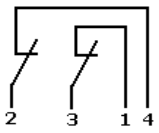
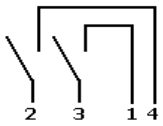
WIRING SCHEME

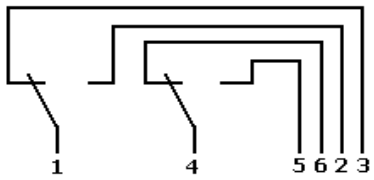
Contacts	Wiring scheme	Switching function : Clockwise rotary motion of the pointer	Cod.
SIMPLE CONTACTS			
Simple min. electrical contact NC		When the pointer reaches the minimum limit valued breaks the third contact	01S
Simple max electrical contact NO		When the pointer reaches the maximum limit value makes the second contact	02S
DOUBLE CONTACTS			
Double connecting Min + Max NC - NO		When the pointer reaches the minimum limit value breaks the third contact and makes the second contact	03C
Double connecting Max + Min NO - NC		When the pointer reaches the maximum limit value makes the second contact and breaks the third contact	04C
Double connecting Min+ Min NC - NC		When the pointer reaches the minimum limit value breaks the second and the third contact	05C
Double connecting Max + Max NO - NO		When the pointer reaches the maximum limit value makes the second and the third contact	06C
DOUBLE CONNECTING CONTACTS			
Double connecting Min + Max NC - NO		When the pointer reaches the minimum limit value breaks the third contact and makes the second contact	03C
Double connecting Max + Min NO - NC		When the pointer reaches the maximum limit value makes the second contact and breaks the third contact	04C
Double connecting Min+ Min NC - NC		When the pointer reaches the minimum limit value breaks the second and the third contact	05C
Double connecting Max + Max NO - NO		When the pointer reaches the maximum limit value makes the second and the third contact	06C

Available also DOUBLE DISCONNECTING CONTACTS, TRIPLE AND QUADRUPLE CONTACT. Please contact SATEMA.

WIRING SCHEME

CHANGE – OVER CONTACTS: SIMPLE (SPDT); DOUBLE CONNECTING (DPDT); DOUBLE DISCONNECTING (IPDT)

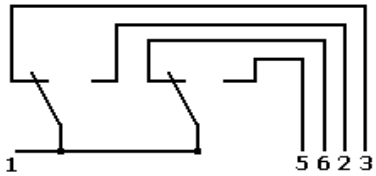
Double change-over
disconnecting
NC – NO
NC – NO



When the pointer reaches the minimum limit value breaks the third contact and makes the second contact at the same time, breaks the sixth contact and makes the fifth contact at the same time

MI9

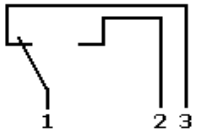
Double change-over
connecting
NC – NO
NC – NO



When the pointer reaches the minimum limit value breaks the third contact and makes the second contact at the same time, breaks the sixth contact and makes the fifth contact at the same time

MI10

Simple change-over
NC – NO



When the pointer reaches the maximum limit value breaks the third contact and makes the second contact at the same time

MI11

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