

变压器温度计

概述

This instrument measures the insulating oil in the transformer. They are studied for withstanding to the most adverse process conditions due to the aggressiveness of the measured fluid and to the environment.

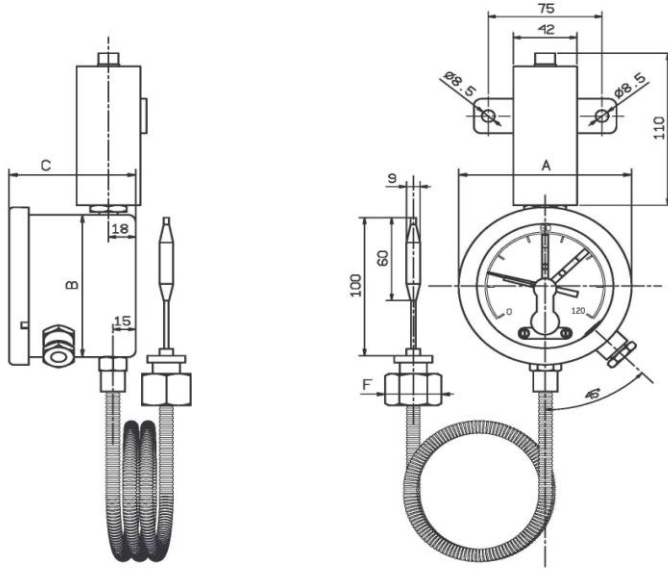


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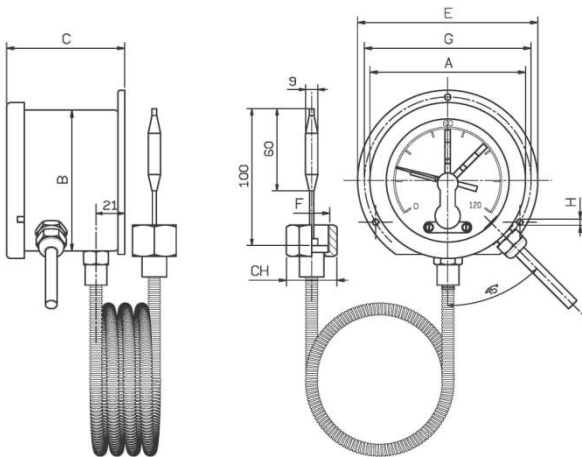
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网址：www.andrewen.com www.andrewen.net 邮箱：info@andrewen

Expansion thermometers with electrical contact

Type A Elastic suspension (vibration damping system)



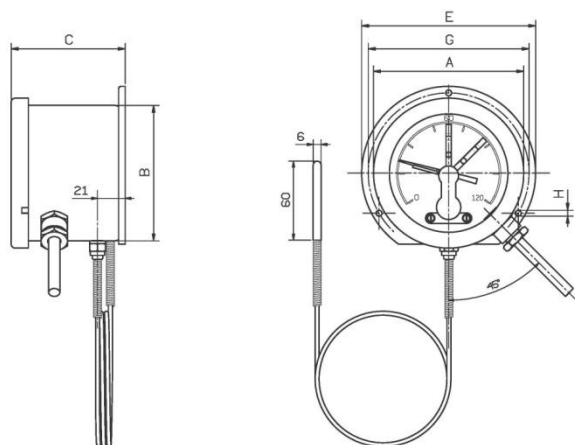
Type B Back flange for wall mounting with capillary coated PVC



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Type C Back flange for wall mounting with copper braided capillary



TYPE	A	B	C ₁	C ₂	C ₃	C ₄	E	F ₁	CH ₁	F ₂	CH ₂	F ₃	CH ₃	G	H
DN 80	90	79	71	X	X	X	110	1/2 BSP	24	3/4 BSP	32	1" BSP	41	82	4,5
DN 100	113	99	71	80	90	100	130	1/2 BSP	24	3/4 BSP	32	1" BSP	41	100	4,5
DN 150	165	149	71	80	90	100	195	1/2 BSP	24	3/4 BSP	32	1" BSP	41	154	5,5
DN 200	220	200	71	80	90	100	140	1/2 BSP	24	3/4 BSP	32	1" BSP	41	190	6,5

C1= Dimensions with simple contact dimensions

C2= Dimensions with double connecting and disconnecting contact

C3= Dimensions with triple connecting contact – change over simple contact - inductive contact

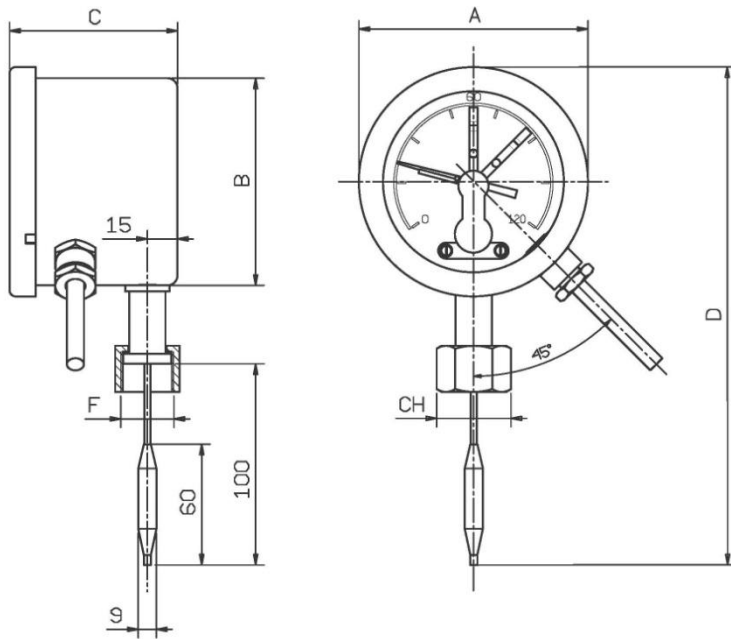
C4= Dimensions with triple disconnecting contact – quadruple contact – change- over double contact



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Type D Direct mounting to the process



TYPE	A	B	C ₁	C ₂	C ₃	C ₄	D ₁	D ₂	D ₃	F ₁	CH ₁	F ₂	CH ₂	F ₃	CH ₃
DN 80	90	79	71	X	X	X	223	225	240	1/2 BSP	24	3/4 BSP	32	1" BSP	41
DN 100	113	99	71	80	90	100	246	248	263	1/2 BSP	24	3/4 BSP	32	1" BSP	41
DN 150	165	149	71	80	90	100	298	300	315	1/2 BSP	24	3/4 BSP	32	1" BSP	41
DN 200	220	200	71	80	90	100	353	355	370	1/2 BSP	24	3/4 BSP	32	1" BSP	41

C1= Dimensions with simple contact

C2= Dimensions with double connecting and disconnecting contact

C3= Dimensions with triple connecting -change-over simple contact, inductive contact

C4= Dimensions with triple disconnecting contact – quadruple contact – change-over double connecting contact

D1= Dimensions with connection 1/2 BSP F.

D2= Dimensions with connection 3 /4 BSP F.

D3= Dimensions with connection 1" BSP F.



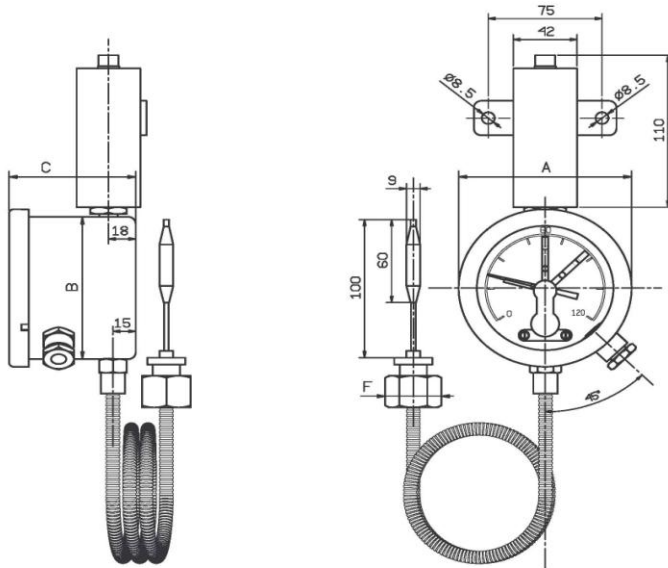
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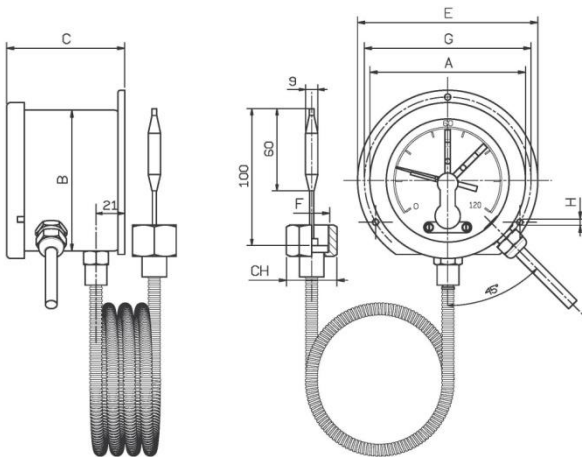
DIMENSIONS

Expansion thermometers with electrical contact

Type A Elastic suspension (vibration damping system)



Type B Back flange for wall mounting with capillary coated PVC



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技术参数

测量元件 Bimetallic spiral spring

传感器元件 Nitrogen-filled

毛细管

Steel coated with PVC sheath Ø 10, steel, stainless, copper braided
(on 0+200°C only)

温包

Ø 9, 11 - sensitive part min. 60 mm

Copper braided capillary diameter Ø 6

Brassy 工艺连接 (not available with copper braided capillary) 1/2 - 3/4 -
1" BSP female nut . Standard length 100 mm.

Other available lengths on request

环境温度 -20°C + 60°

C

表玻璃

Glass 3 mm thickness

表壳和密封

圈 304 st.st.

表玻璃垫 EPDM

Accuracy

Class 2 EN 13190

保护等级:

IP 54 according to UNI EN 60529

刻度盘

White aluminium, black markings

Pointer

Adjustable varnished black aluminium



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MOUNTING

Direct mounting/ bottom and back connection
Flush mounting to wall with back 304 st.st.
Elastic suspension (vibration damping system)

电气连接

Electric cable section 0.75 mm², sheath secured with cable gland
Terminal IP 65 at 3 or 6 poles (not available for DN 80 and DN 200) Only with cable gland (without connection)

Dimensions in mm

DN 80 - 100 - 150 - 200
(DN 80 available only for single and double contacts)

Available electrical contacts

Single - Double - Triple - Quadruple
Change-over simple or double

Technical specifications contact

Max voltage 250 Volt
Admissible full load 10 W / 18 VA

可选项

刻度盘 on double scale °C/F

Max pointer on the 刻度盘, also resettable from external (not available for DN 80 and DN 200)

Inductive and electrical contacts

Electrical contact adjustable from external, also watertight. (plexiglass window)

Armoured coating for capillary sleeve : Ø 7 mm spiral protective – galvanized steel (no copper braided capillary)

Different thermowell lengths on request, available 1/2 - 3/4 - 1" BSP connections



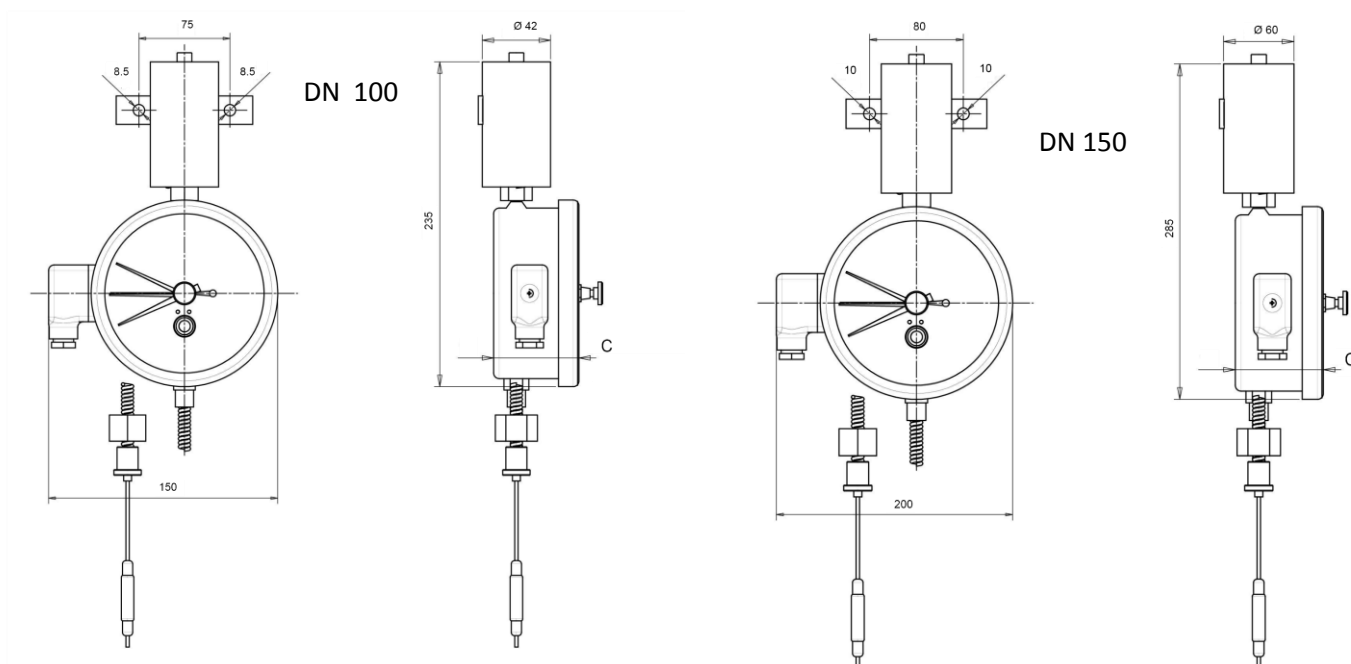
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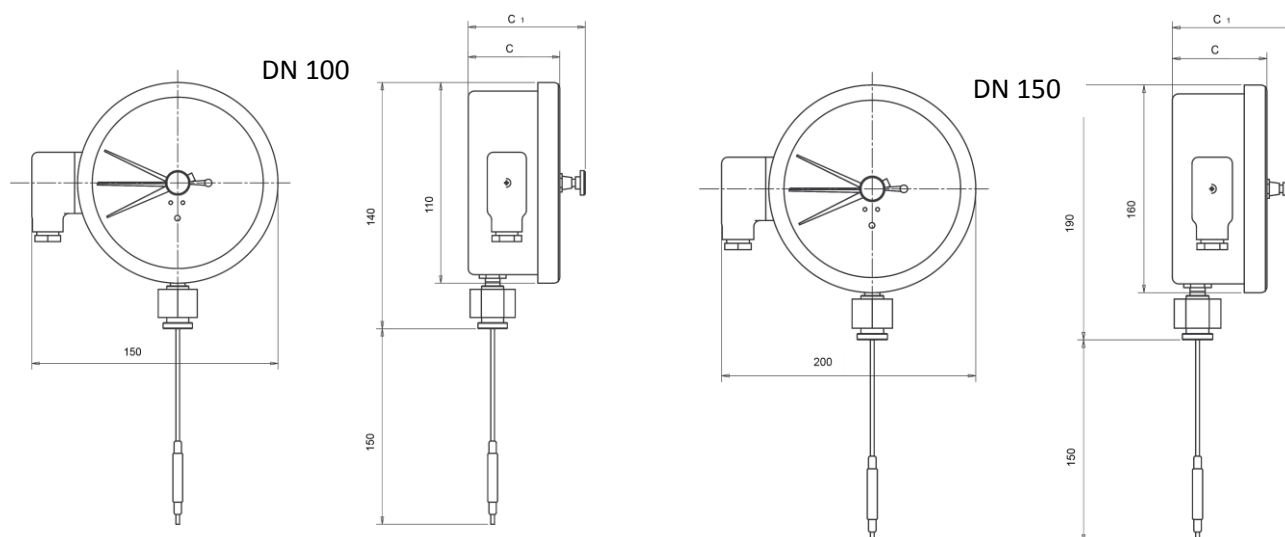
DIMENSIONS

Expansion thermometers with microswitch

Type A Elastic suspension(vibration damping system)



直接安装



TYPE	C	C ₁
Single microswitch	90	79
Double microswitch	113	99



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技术参数

测量元件

Bourdon spring thermally treated

传感器元件

Nitrogen-filled

毛细管

Steel coated with PVC sheath Ø 10 Stainless steel

温包

Ø 9 , 11 - sensing part min. 80 mm

工艺连接

1/2 - 3/4 - 1" BSP union nut. Standard length 100 - 150 mm

Available lengths on request

环境温度 -20°C + 60°C

表玻璃

Glass 3 mm thickness

表壳和密封圈 304 st.st.

表玻璃垫 EPDM

Accuracy

Class 1 EN 13190 microswitch hysteresis $\pm 3\%$

保护等级:

IP 54 UNI EN 60529 with cable - IP 65 UNI EN 60529 with junction box

刻度盘

White aluminium with black markings

Pointer

Adjustable Black varnished aluminium



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MOUNTING

Direct mounting/bottom and back connection
Flush mounting to wall with back 304 st.st
Elastic suspension (vibration damping system)

电气连接

Electric cable section 0.75 mm² with sheath secured by cable gland
Junction box IP 65 at 3 or 6 poles

Available dimensions in mm

DN 100 - 150

技术参数 **micro switch** Single or double

Max voltage 250 Volt

Admissible Full load 5A

Indicators adjustable with setting key

可选项

刻度盘 with double scale °C/°F

Max pointer on window (plexiglass only)

Armoured coating for capillary sleeve : Ø 7 mm spiral protective – galvanized steel
Different thermowell lengths on request , available 1/2 - 3/4 - 1" BSP connections

Load table

TERMAF ITALY			
250	Vac	5	A
125	Vdc	500	mA
250	Vdc	250	mA
		65	IP

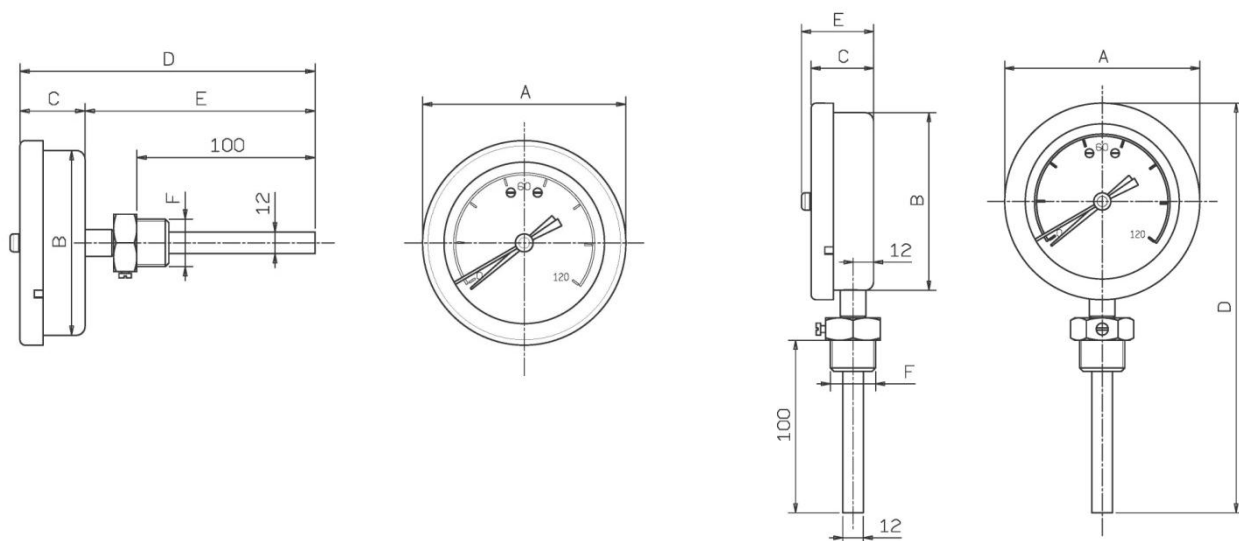


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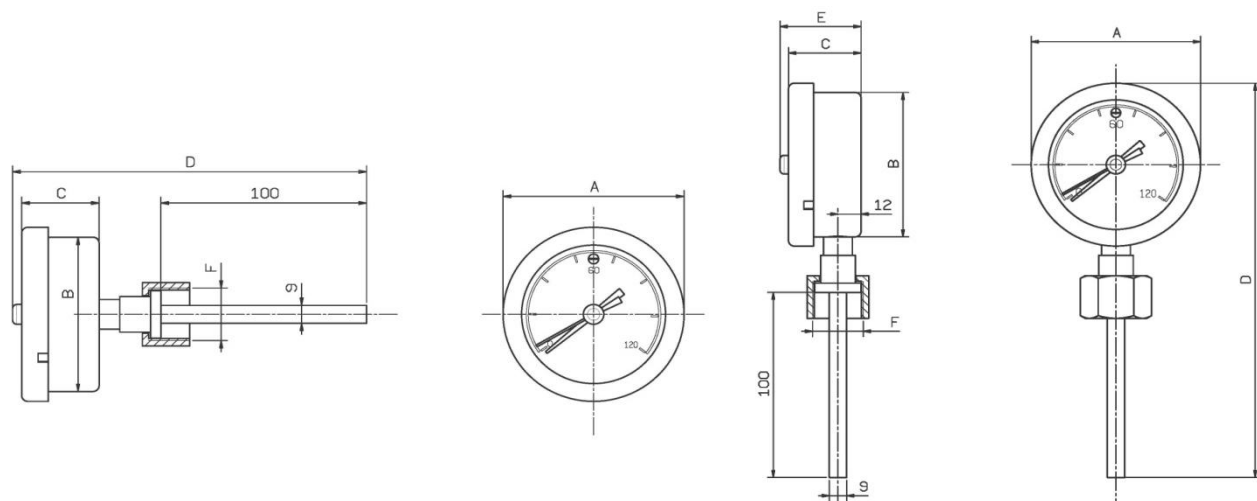
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DIMENSIONS

Bimetallic thermometer



TYPE	A	B	C	D	E	F ₁	F ₂	F ₃
DN 80	90	79	39	215	49	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41
DN 100	113	99	39	215	49	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41
DN 150	165	149	39	215	49	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41



TYPE	A	B	C	D ₁	D ₂	D ₃	E	F ₁	F ₂	F ₃
DN 80	90	79	39	223	225	240	49	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41
DN 100	113	99	39	246	248	263	49	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41
DN 150	165	149	39	298	300	315	49	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41

D1= Dimensions with. Connection 1/2 BSP F

D2= Dimensions with connection 3/4 BSP F.

D3= Dimensions with connection 1" BSP F.



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技术参数

测量元件

Bimetallic spiral spring

工艺连接

1/2 - 3/4 - 1" BSP union nut. Standard length 100 mm

Available lengths on request.

环境温度 -20°C + 60°C

表玻璃

Glass 3 mm thickness

表壳和密封圈

AISI 304 st.st.

表玻璃垫 EPDM

Accuracy

Class 2 EN 13190

刻度盘

White aluminium with back markings

Pointer

Adjustable black varnished aluminium

保护等级:

IP 54 UNI EN 60529

Mounting

Direct mounting / bottom and back connections

Dimensions available in mm

DN 80 - 100 - 150

可选项

刻度盘 with double scale °C/°F

Max pointer on window (plexiglass only)

Different thermowells lengths on request , available 1/2 - 3/4 - 1" BSP connections



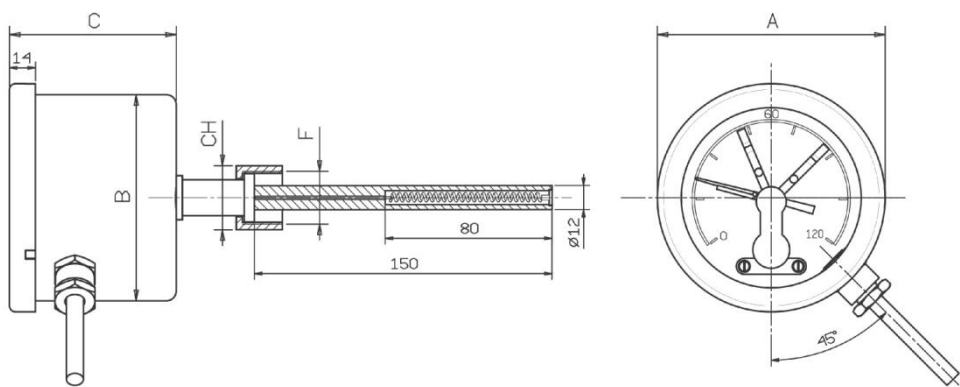
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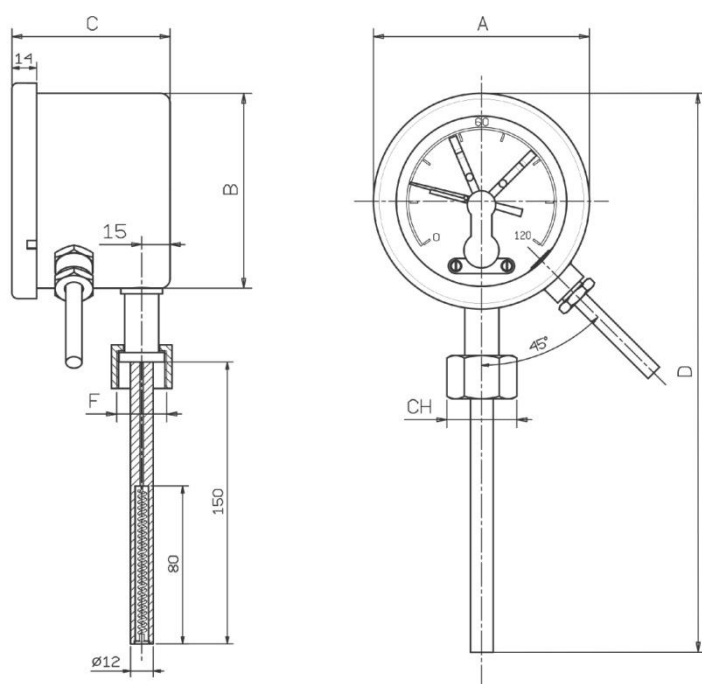
DIMENSIONS

Bimetallic thermometer with electrical contact

Back connection, direct mounting



Bottom connection, 直接安装



TYPE	A	B	C	D ₁	D ₂	D ₃	F ₁	F ₂	F ₃
DN 80	90	79	80	223	225	240	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41
DN 100	113	99	80	246	248	263	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41
DN 150	165	149	80	298	300	315	1/2 BSP ch 24	3/4 BSP ch 32	1" BSP ch 41

D1= Dimensions with connection 1/2 BSP

D2=Dimensions with connection 3/4 BSP

D3 = Dimensions with connection 1" BSP



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技术参数

Element measure

Bimetallic spiral spring

工艺连接

1/2 - 3/4 - 1" BSP union nut. Standard length 150 mm

Other lengths available on request

环境温度 -20°C + 60°C

表玻璃

Glass 3 mm thickness

表壳和密封圈

AISI 304 st.st.

表玻璃垫 EPDM

Accuracy

Class 2 EN 13190

刻度盘

White aluminium, black markings

Pointer

Adjustable black varnished aluminium

保护等级:

IP 54 UNI EN 60529

Mounting

Direct mounting/ bottom and back connection

Available dimensions in mm

DN 80 - 100 - 150

Available Range Scale

0 -120°C

-20 +120°C

0 -150°C

0 - 200°C

可选项

刻度盘 with double scale °C/F

Max pointer on 刻度盘

Electrical contact adjustable from external, also watertight. (plexiglass window)

Different thermowell lengths on request, available 1/2 - 3/4 - 1" connections



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电气连接

Electric cable section 0.75 mm² with con sheath secured by cable gland

Junction box IP 65 at 3 or 6 poles (not available for DN 80)

Only with cable gland (with connection)

Available electrical connections

Single - Double

供电技术参数 Max voltage 250

Volt Admissible full load 10 W /

18 VA



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