

惰性气体膨胀温度计，不锈钢外壳

DN 80/100/150/200 SERIES

概述

Inert gas dilatation thermometers (Nitrogen) reliable and accurate, realised for control and regulation process.

For applications in the food, pharmaceutical and chemical industries, the operation consists in a bulb, capillary and a Bourdon spring. All these components are combined to form a close circuit. (thermometric element).

The temperature variations change the inner pressure of the bulb with the resulting deflection of the Bourdon spring that by a link, transfers the movement to the mechanical linkage and as a consequence also to the pointer.



安德鲁信重工江苏有限公司

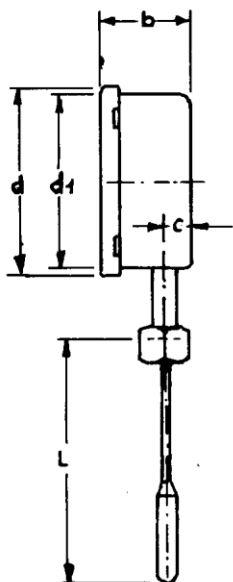
地址：江苏省江阴市澄江东路3号 电话：0510-86199978 86199979 传真：0510-86199980
网址：www.andrewen.com www.andrewen.net 邮箱：info@andrewen

单位：毫米

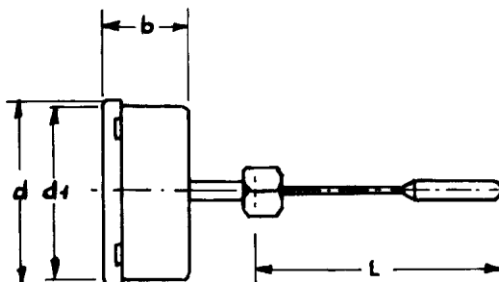
DN 80/100/150/200

DIRECT MOUNTING

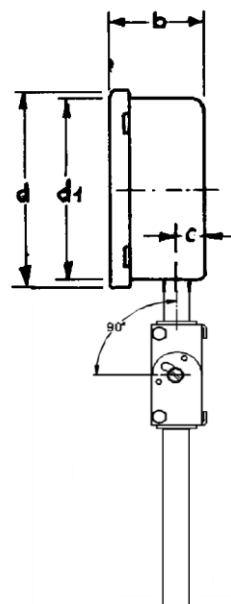
TYPE A



TYPE B



TYPE E



Standard connection 1/2 BSP

DN	b	c	d	d1	Std. length
80	49	15	90	79	100 mm
100	49	15	113	99	100 mm
150	51	15	166	148	100 mm
200	54	15	218	200	100 mm



安德鲁信重工江苏有限公司

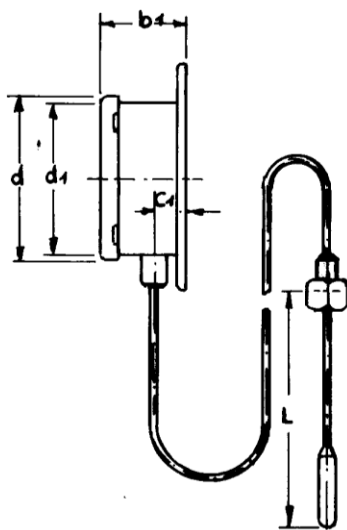
地址：江苏省江阴市澄江东路3号 电话：0510-86199978 86199979 传真：0510-86199980
网址：www.andrewen.com www.andrewen.net 邮箱：info@andrewen

单位：毫米

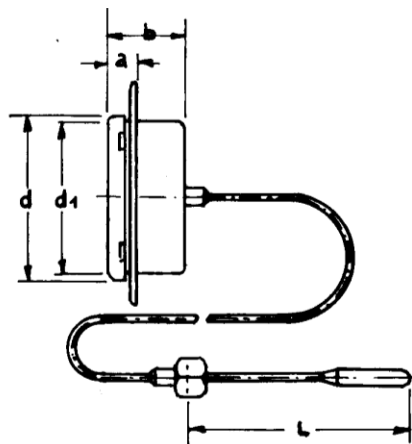
DN 80/100/150/200

REMOTE MOUNTING

TYPE A

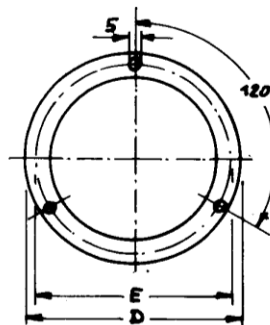
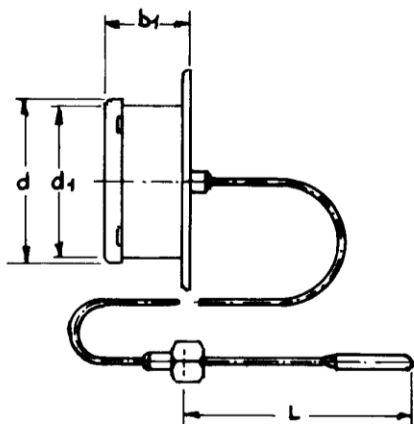


TYPE B



Also available with U-bracket for panel mounting

TYPE C



Standard connection 1/2 BSP

DN	b	b1	c	d	d1	D	E	Std. Length
80	49	53	15	90	79	110	94	100 mm
100	49	53	15	113	99	132	116	100 mm
150	51	55	15	166	148	195	178	100 mm
200	54	58	15	218	200	243	220	100 mm



安德鲁信重工江苏有限公司

地址：江苏省江阴市澄江东路3号 电话：0510-86199978 86199979 传真：0510-86199980
 网址：www.andrewen.com www.andrewen.net 邮箱：info@andrewen

技术参数

适用标准: EN 13190

公称尺寸(mm): 80, 100, 150, 200

范围: from -200 to 600°C

精度: : Cl. 1 according to EN 13190

环境温度: -20+60°C

流体温度: max 60°C

温度超限: 20% up to 400°C – not suitable for 500-600°C

保护等级: IP 54 according to IEC 529 - IP65 filled

表壳: 304 st.st.

密封圈: 304 st.st.

刻度盘: white aluminium, with black markings.

指针: black aluminium, micrometer adjustment

表玻璃: glass 3 mm thickness

垫圈: in EPDM

测量元件: Bourdon spring thermally treated

传感器元件: Nitrogen

毛细管: Steel – Stainless steel

温包: Std. Ø 9 , sensing part mm 65

可选项

刻度盘 with double scale °C/°F

Spiral capillary armoured coating Ø 7 304 st.st. – galvanised steel - PVC

Brass or AISI 316 st.st. thermowells, different lengths on request, with connection

3/8 BSP 1/2 BSP - 3/4 BSP

Gliceryne filled or silicone oil

电触点 (the case height changes according to the contact numbers)



安德鲁信重工江苏有限公司

地址: 江苏省江阴市澄江东路3号 电话: 0510-86199978 86199979 传真: 0510-86199980
网址: www.andrewen.com www.andrewen.net 邮箱: info@andrewen

MAX PERMISSIBLE ERRORS ACCORDING TO EN 13190
Suitable for bimetallic and dilatation thermometers

SCALE RANGE	测量范围	ERROR LIMIT CLASS 1
0 + 50	10...40	1
0 + 60	10...50	1
-10 + 40	-5...35	1
-20 + 40	-10...30	1
- 40 + 40	-30...30	1
-40 + 80	-30...70	2
-50 + 50	-40...40	1
- 10 + 50	0...40	1
-20 +50	-10...40	1
-10 + 60	0...50	1
-20 +60	-10...50	1
-20 +80	-10...70	1
0 +100	10...90	1
-20 +100	-10...90	2
0 +120	10...110	2
-10 +120	0...110	2
-20 +120	-10...110	2
0 +150	10...130	2
0+160	10...140	2
-20 +150	-10...130	2
0 +200	20...180	2
0+250	30...220	2,5
0 + 300	30...270	5
0 +400	50...350	5
0 + 500	50...450	5
0 + 600	100...500	10
+50 +650	150...550	10

The error limit is stated on measuring scale and not on the range scale

When the indicating pointer is affected by the contact link add to the thermometer with electric contacts accuracy the 50% of their accuracy



安德鲁信重工江苏有限公司

地址：江苏省江阴市澄江东路3号

电话：0510-86199978 86199979

传真：0510-86199980

网址：www.andrewen.com

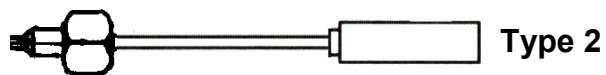
www.andrewen.net

邮箱：info@andrewen

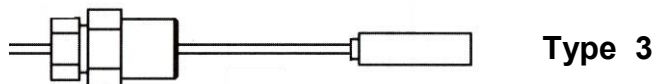
AVAILABLE CONNECTIONS



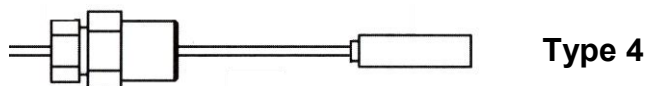
Bare bulb fitted directly to the process.



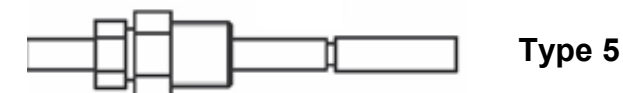
Bulb with female swivel nut connection - fixed length



Bulb with male swivel nut connection – fixed length



Bulb with male swivel compression connection sliding on the capillary



Bulb with compression connection sliding on the rigid shank.

It's necessary a thermowell connection to the systems with pressure exceeding 20 BAR.



安德鲁信重工江苏有限公司

地址：江苏省江阴市澄江东路3号

网址：www.andrewen.com

电话：0510-86199978 86199979

www.andrewen.net

传真：0510-86199980

邮箱：info@andrewen