



## Resistance Thermometer for Aggressive Environments

### OR30

#### Sensor Features

Resistance Thermometer designed for aggressive environments is processed from PVC, DERLIN or TEFLON filled material. It is produced as standard in the shapes of A1, A2, A3, A4 and A5.

#### Product Code

OR30 - - - - -

**Picture No. :**

- A1
- A2
- A3
- A4
- A5

**Electrical Connection :**

- A = A Class Pt-100
- B = B Class Pt-100

**Outer Protective Sheath Material :**

- PD = PVC Filled ( -15...+60°C )
- CP = CPVC Filled ( 0...+90°C )
- DD = Derlin Filled ( -50...+120°C )
- TD = Teflon Filled ( -250...+250°C )

**Outer Protective Sheath Diameter :**

- 15 = 15 mm
- 20 = 20 mm
- 25 = 25 mm

**Exceptions :**

- Ü (Three Wires)
- EF (Film Element) -70....+500°C
- ES (Ceramic Element) -200....+600°C
- RX\* (Raccord)
- RA (Adjustable Raccord)
- F (Flange)
- SF (Certificate)
- W (Thermowell)

**Immersion Length :**

- 5 = 50 mm
- 10 = 100 mm
- 15 = 150 mm
- 20 = 200 mm
- 25 = 250 mm
- 30 = 300 mm
- 40 = 400 mm
- 80 = 800 mm
- 100 = 1000 mm

**Note:** Your requests up to 200mm in length are processed from a minimum diameter 15mm filled material. For 200mm and above lengths, diameter 20mm and above is processed from filled material.

## PVC

Its resistance to many chemicals, especially strong acids, has made it a preferred material for these processes. Due to its structural properties, PVC is a material that can be welded and bonded. It has a temperature resistance up to 60 ° C. It does not ignite when exposed to flame and pulled. CPVC should be used for maximum 90°C and chromic acid applications.

## DERLİN

Due to the high rate of crystallized structure of oxygen and methylene groups in it, it provides high hardness and durability without adding any reinforcement material or structure. Resistant to hot water, organic solvents, petroleum products and most mineral oils. Spring, hardness, dimensional stability, high resistance to load and impacts, excellent abrasion resistance, high mechanical strength and rigidity, good electrical insulation, low water absorption and heat resistance are the important features that distinguish DELRİN from other plastics. It has an operating temperature between -50... + 120 ° C.

## TEFLON

Heat resistance and high temperature working range are among its distinctive features. Its mechanical strength is weak. It has a very low coefficient of friction. It does not react chemically with any substance. It has excellent chemical resistance. There is no harm in contact with food. Its measurement stability is not very good. During processing, attention should be paid to tolerances. It has an operating temperature between -250... + 250 ° C.

**NOTE:** Our OR30 type Resistance Thermometers are processed from round materials filled with PVC, CPVC, DERLİN and TEFLON. In our standard productions, PVC, CPVC, DERLİN and TEFLON are processed from a minimum diameter of 15 mm. Please contact our company for your requests under 15 mm. Standard raccord size of our OR30 raccord type resistance thermometers is R $\frac{1}{2}$ ". If the raccord size you want is different, please specify it separately.

## Product Shapes

