

**STRAIGHT RTD PROBE**  
**TYPE: SPxAi**



- **Heavy duty Construction (stainless steel or steel)**  
13.5 to 21.3 mm diameter
- **For any type of high flow rates application**  
Large dimension piping  
Vat or tank  
Good resistance to shock and vibration
- **For any type of application in corrosive or reducer areas**
- **Interchangeable measure element**
- **Suitable on most process connection**

**Models available in ATEX and IECEx version**  
**Intrinsic safety Gaz and Dust**



SP..Ai type sensors are intended to measure harsh environment industrial temperature, with large section sheath. For use on large piping or tank. Direct output or loop powered.

**TECHNICAL SPECIFICATION :**

- **Connecting head :** Light alloy DAN - V (IP 65) type.  
Hinge mounting cap with closing by screw,  
M20x1.5 cable gland output.
- **Protection sheath :** 316 L stainless steel, carbon steel or refractory steel,  
Ø 13,5 mm to Ø 21,3 , 2,6 mm wall thickness
- **Measure element :** Single or duplex winding,  
304 L stainless steel sheath, Ø 6 mm, 0,4 mm  
wall thickness.
- **Sensitive element :** Pt 100 Ohms to 0 °C according to CEI 751 class B norm  
2, 3, 4 or 6 wires mounting  
Using temperature : -50°C/+ 600 °C (in option :+ 850 °C)
- **Fastening :** Oval sliding flange  
Sliding connector  
Welded connector  
Welded flange  
(other fastening types on request)
- **Options :** In head embedded transmitter (loop powered)  
ADF, PVC and other head on request  
RTD class type: A, 1/3 B, 1/10 B, ... in option.

**Fastening  
Accessory**



# STRAIGHT RTD PROBE

## TYPE: SPxAi

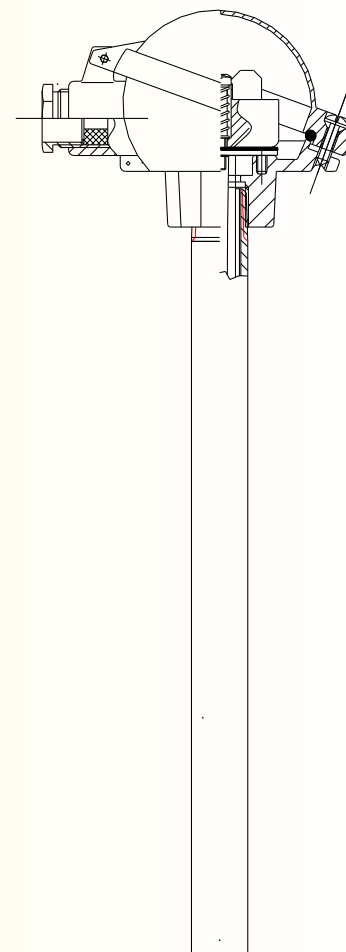
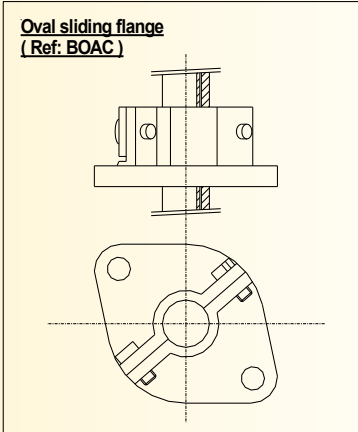
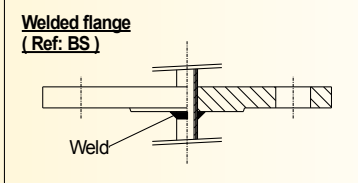
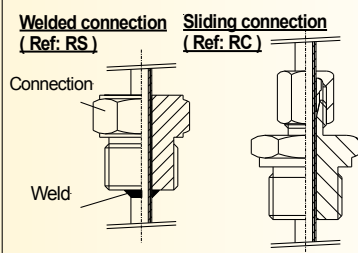


### Technical specification:

- Maximum temperature use : -50 /+ 600 °C  
(in option : -50/+ 850 °C (HT version) or -200/+200°C (BT version))
- Standard version response time (mean value given for information only): Fonction of sheat type.
 

in water at 0,2 m/s :	t <sub>0,5</sub> = 75 s	t <sub>0,9</sub> = 225 s
in air at 1 m/s :	t <sub>0,5</sub> = 6 min.	t <sub>0,9</sub> = >12 min.
- dielectric strength: 500 Vdc ; insulation >200 Mohms
- maximum operating pressure: 80 bar (ambient temperature)

### Fastening



### Interchangeable element outputs:

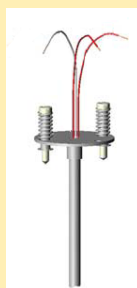
Transmitter  
output  
(ELC)



Terminals  
output  
(ELB)

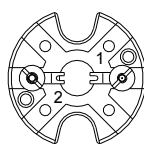


Wires  
output  
(ELF)



Any other dimensions on request.

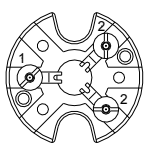
Wiring:



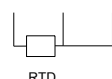
1 2



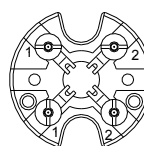
RTD



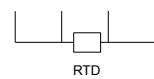
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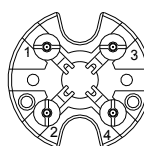
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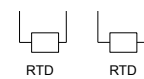
1 1 2 2



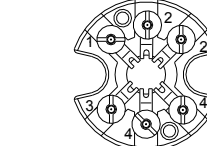
RTD



1 2 3 4



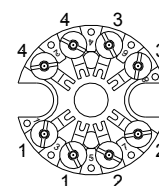
RTD



1 2 2 3 4 4



RTD



1 1 2 2 3 3 4 4



RTD

RTD

### Code commande

<b>SP</b> RTD probe	<b>D</b> Single (by default) or Duplex element	<b>250</b> Utile length (mm)	<b>Ai</b> Ai : Stainless steel A : Carbon steel	<b>Ti 100</b> Extension length (intermediate pipe) (mm)  optional	<b>ER</b> if reduced extremity	<b>DAN v</b> Head type DANv DANc FONT PVC MA INOX TVKLB ADF	<b>-</b>	<b>RCa</b> Connection type R0: no connection (by default) RCi: stainless steel sliding connection RCa: steel sliding connection RSi: welded stainless steel connection RSa: welded steel connection BOAC: sliding flange BS: welded flange	<b>/</b>	<b>ELB</b> Interchangeable element type ELB: screw-terminal output ELF: wire output ELC: output on embedded Inserted Type to be specified CAL40; CNL40; ,,,,,,	<b>13,5</b> external sheath diametre  13,5 17,2 21,3 ,,,,,
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