

RTD probes are characterized by a very short response time, an easy and fast fastening and a high flexibility according skin temperature to be measured.

• **SPS** **Flexible contact probe**

Sensitive element RTD class B, insulated under silicone elastomer, element support in teflon (L:25mm, l:10mm, thickness: 1,5mm), 4 wires cable in teflon, 2m length, radius of curvature higher than or equal to 25mm in the longitudinal sense only.

NB: Do not use in the oils and solvents, temperature range: -50°C to +200°C, response time: 70 ms to 63,2% of the water immersed measure circulating to 1m/s.

• **SPF** **FASTON probe**

• **TCF** **FASTON thermocouple**

Sensitive element mounted in FASTON ring terminal, internal fastening Ø from 4 to 16 mm (other Ø on request), 3 insulated wires teflon / teflon cable, length to be defined.

Temperature range: - 50 °C to + 200 °C. RTD, thermocouple, ...

available in ATEX version gaz and dust

applications: *machinery skin, heat sink,...*

• **SPFLEX** **Probe with gear clamp**

• **TCFLEX** **Thermocouple with gear clamp**

Stainless steel 316L protection sheath, Ø 5mm, end thined for a best contact with surface, welded or not stainless steel gear clamp « serflex » type, axial and radial mounting.

3 insulated wires teflon/ teflon cable, length to be defined, clamp Ø as needed.

Temperature range: - 50 °C to + 200 °C. RTD, thermocouple, ...

available in ATEX version gaz and dust

applications : *pipe temperature (ex: heating)*

• **SPP** **Plate contact probe**

• **TCP** **Plate contact thermocouple**

Stainless steel 316L protection sheath, Ø 4 x 0,5mm, welded on a small plate

(L: 30mm, l:20mm, épaisseur: 5mm), 3 insulated wires teflon/ teflon cable or mineral insulated cable, length to be define.

Temperature range: - 50 °C to + 200 °C (-50°C à +600°C version HT)

RTD, Thermocouple, ...

available in ATEX version gaz and dust

applications: *machinery skin*

• **SPC** **Piping skin measurment**

MAKROLON IP65 box with aluminium pad, output by PG9 cable gland.

Maximum température range: - 50 °C to + 100 °C ,RTD sensitive element mounting (2,3,4 wire)

gear clamp fastening (Built-in measure transmitter option)

applications: *pipe skin temperature*

• **STS** **Skin temperature sensor with connection head**

IP65 miniature connection head (Built-in measure transmitter option)

Teflon heat insulator, with contact plate tip.

Threading to be defined.

• **SSO** **Eyelet contact probe**

• **TSO** **Eyelet contact thermocouple**

available in ATEX version gaz and dust

applications: *boiler pipes, heat exchanger*



Models available
in ATEX and IECEx
version



Temperature sensors for contact measure

Technical specifications:

- Using temperature: from -70 to +400°C according to cable nature.
- Response time standard version (mean value given for information only) :

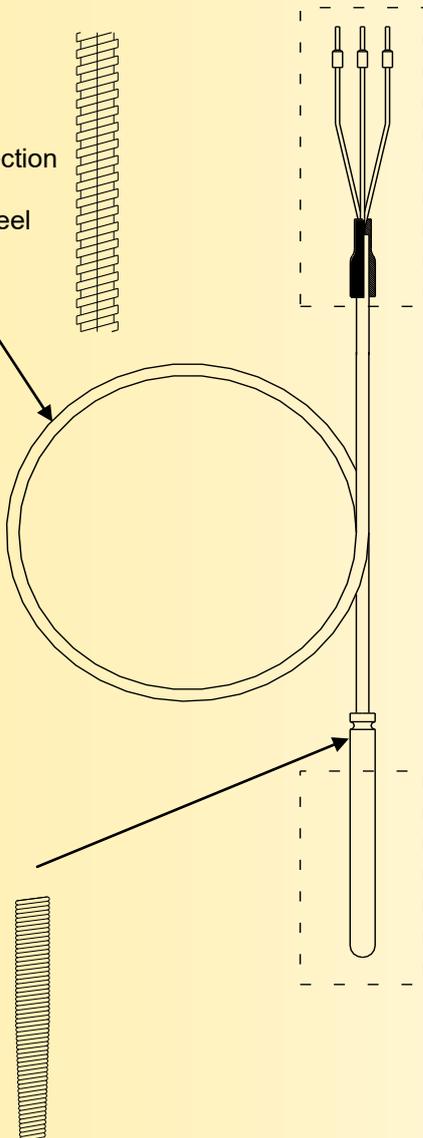
in water at 0,2 m/s :	$t_{0,5} = 25 \text{ s}$	$t_{0,9} = 75 \text{ s}$
in air at 1 m/s :	$t_{0,5} = 2 \text{ min.}$	$t_{0,9} = 6,3 \text{ min.}$
- Dielectric strength: >500 Vdc ; insulation >200 Mohms

Proposed cables natures: temperature resistance

PVC:	-50°C / +105°C
téflon PFA:	-80°C / +260°C
téflon FEP:	-80°C / +205°C
SILICONE:	-55°C / +230°C
Silik of glass:	-70°C / +400°C



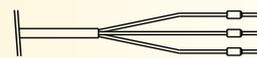
Option :
Cable protection by flexible stainless steel corrugated



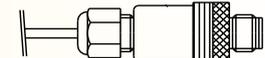
Option :
Bending spring in sensor output

Output

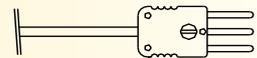
Naked wires or with crimped terminal
(Ref: F)



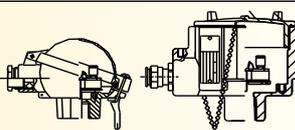
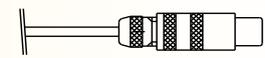
Screw connection (ex: M12)
(Ref: CV)



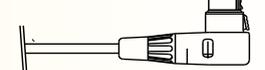
Standard connection
(Ref: Cstd)



Push Pull connection (ex: Lemo)
(Ref: CPP)

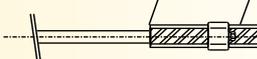


Clip connection (ex: Neutrik)
(Ref: CC)



End / Fastening

Serflex collar
(Ref: Flex1)



Welded strut
(Ref: P)



Serflex collar
(Ref: Flex2)



Ring terminal
(Ref: F)



- **Options :**
- Other sensitive element: RTD, CTN , Silicium, ...
 - All cable length.