. SAP : RTD Penetration probe
(Best accuracy)
RTD Penetration probe (Sensitive element: RTD, NTC, ...)

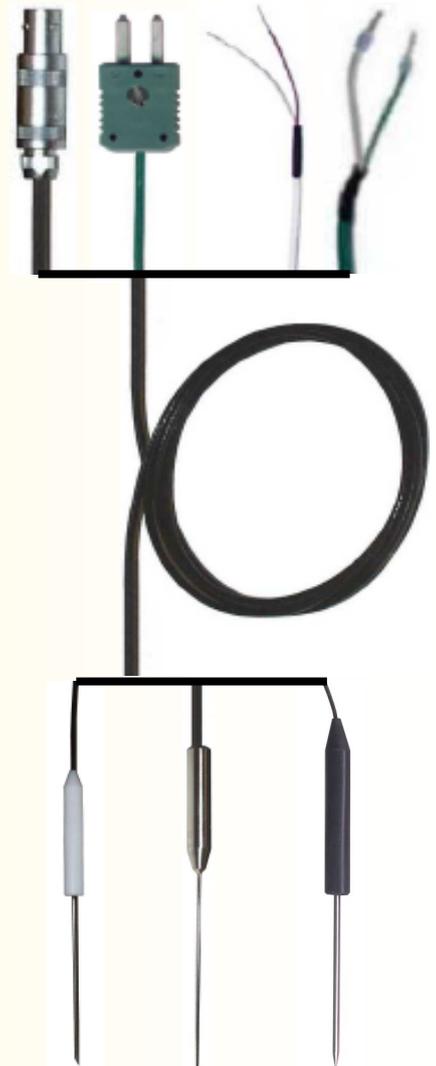## . TAP : Penetration thermocouple
(Best response time)
Penetration thermocouple (Sensitive element: J, K or T thermocouple)

. TAH : Hypodermic needle thermocouple

. Applications :
Cooking control
Temperature measure of vacuum prepared dish
Core temperature measure.

SAP - TAP type probe are particulary adapted for applications requiring an outlet temperature at the heart product like in food field (cooking contol, grill room, etc) or industry (autoclaves).

Different tip Ø:	Stainless steel sheath (316L): Ø 1,9 to 6 mm Conic or beveled extremity Hypodermic needle: Ø 0,8 or 1,2mm
Measure element:	Single, duplex or triple with stepping of measure points on request.
Mounting:	2, 3 or 4 wires.
Handle:	stainless steel teflon silicone
Cable:	teflon (resistance 250°C)
Possible options:	Bent realization Cable protection by stainless steel corrugate Bending spring in sensor output Different types of cable (silicone)

SAP - TAP type sensors are delivered with 2m cable by default.

All models are available in bent version

Order code

TAP	J	D	100 -	C	D 2	C	T	- FEP/FEP	T	- L 1500	/ E
SAP:	Couple	**S:** Single	End	End type:	End Ø	**C:** Bent	Handle type	Cable type	If	Cable	Cable
RTD probes	J	(by default)	length	**C:** Conical	(mm)	**D:** Straight	**T:** Teflon	Wire insulation / Sheath	armoured	length (mm)	end
	K	or	(mm)	**B:** Bevelled			**I:** Stainless steel				**E** = extremity
TAP:	T	**D:** Duplex		**H:** Hypodermic			**S:** Silicone				by default
Thermocouple		element		needle							
											Optional

Option: Cold output on connection or thimble
(type and connection to be specified)

Terminal end:
Mounting by default

Lug:
- Spade tongue
  or
- Ring

FASTON clip:
- 2.8mm
  or
- 6.35mm

JAEGER type connection

LEMO type connection

Compensated connection (standard or miniature)

Option: bending spring in handle output.

Option: protection of cable by stainless stell corrugated hose.

Proposed type of cable: temperature holding

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

Wiring (European standard):
Color of the thermocouple + wire is same as sheath color, - is white

Production exemple

Model n°1:
- Bent
- Cable under covered corrugated
- Stainless steel handle
- Fixing collar

Model n°2:
- Straight
- Cable under corrugated
- Connection for internal wall mounting (furnace, drying stove,...)

Model n°3:
- Bent
- Cable under corrugated
- Stainless steel handle

Model n°4:
- Straight
- Cable under corrugated
- Stainless steel handle
- Multipoint
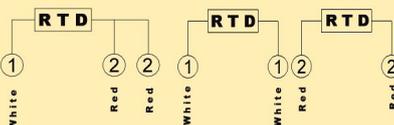
Model n°5:
- Bent
- Teflon cable
- Stainless steel handle
- Crimped terminal

Model n°6:
- Straight
- Hypodermic needle
- Stainless steel handle
- LEMO connection

Model n°7:
- Straight
- Cable output
- Teflon handle
- Crimped terminal

Model n°8:
- Straight
- Teflon cable
- Teflon handle
- LEMO connection