

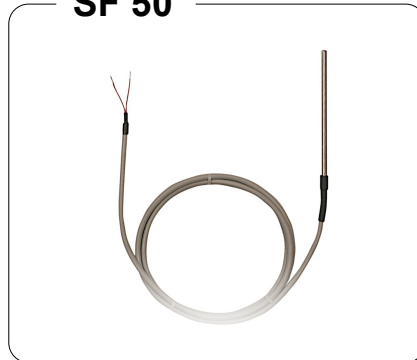
*Temperature probe at
resistive element for wine application*

TM 50 / TPV 50 / SF 50

TPV 50



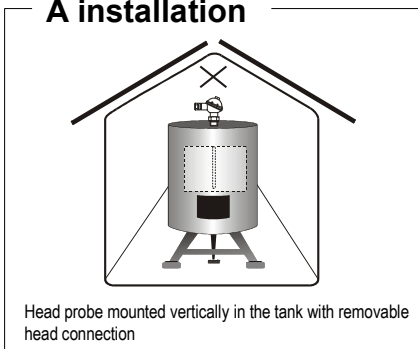
SF 50



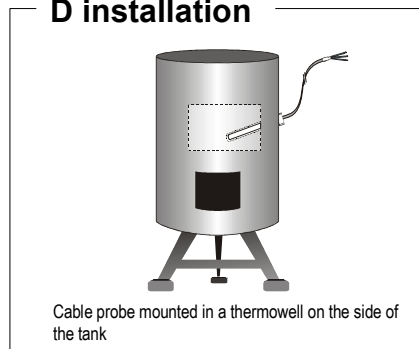
TM 50



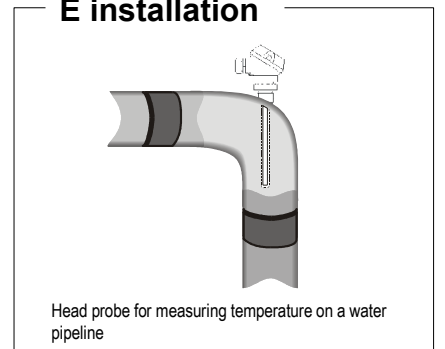
A installation



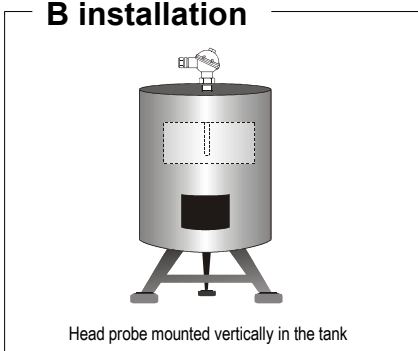
D installation



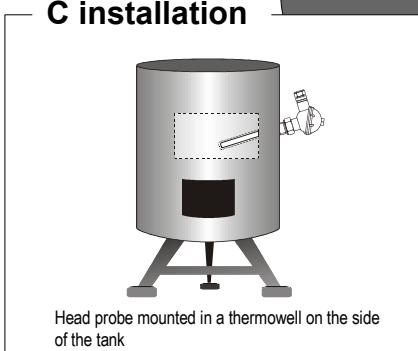
E installation



B installation



C installation

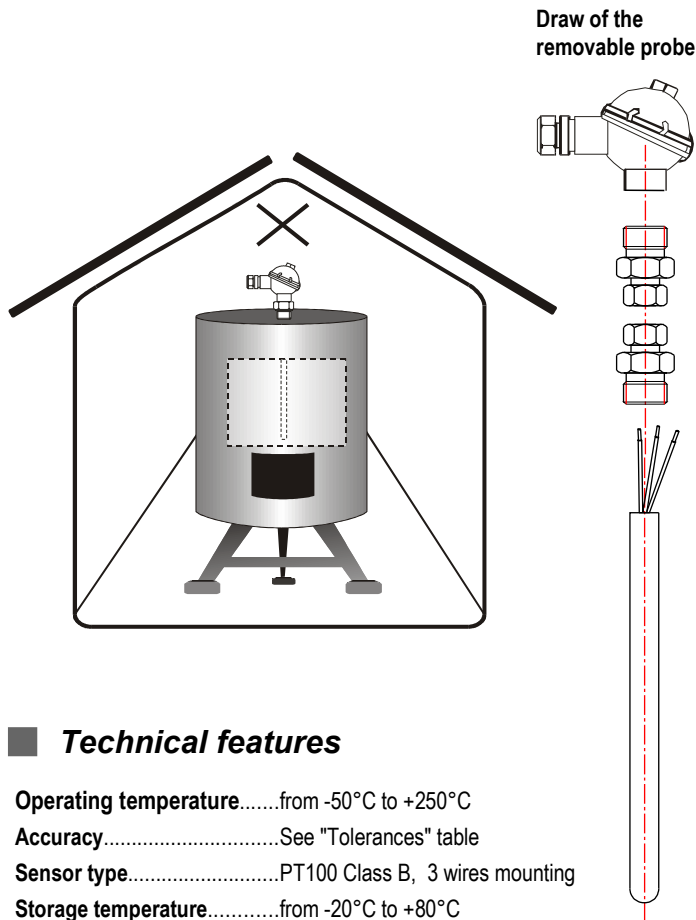


- Head or wire temperature probe with or without compression fitting and stainless steel contact tip
- Probe with aluminium head (TM 50) or noryl resin (TPV 50), PT 100 Class B, IP65.
- Wire probe PT 100 or PT 1000 Class B with Contact tip mounted on PVC cable
- Measuring range
from -50°C to +250°C (TM 50 and TPV 50).
from -40°C to +120°C (SF 50).
- Mounting of element : simple (2 or 3 wires).

TPVD 50

Installation A

Head probe mounted vertically in the tank with **removable** head connection



Technical features

- Operating temperature**.....from -50°C to +250°C
- Accuracy**.....See "Tolerances" table
- Sensor type**.....PT100 Class B, 3 wires mounting
- Storage temperature**.....from -20°C to +80°C
- Contact tip**.....stainless steel 304 L, 14 mm diameter
Defining length according to mounting on tank
- Connection**.....Stainless steel fitting removable to the 1/2"G male thread
Teflon clamp ring
- Thread**.....with or without, 1/4, 1/2, Gas or NPT plug
(other thread on request)
- Connection head**.....noryl resin
IP65 protection
Removable head mounted on 1/2"G male thread
stainless steel connection
- Electrical connection**.....terminal block with 3 screws
- Accessories**.....connection cable (lyflex 3 x 0,75 mm²)
Welding sleeve

Part numbers

To order, just add the codes to complete part number.

Contact tip length (mm)

1000
1250
1500
2000
...*

TPVD - 50 - B - 3 - S - 14* - []

* Other dimension on request

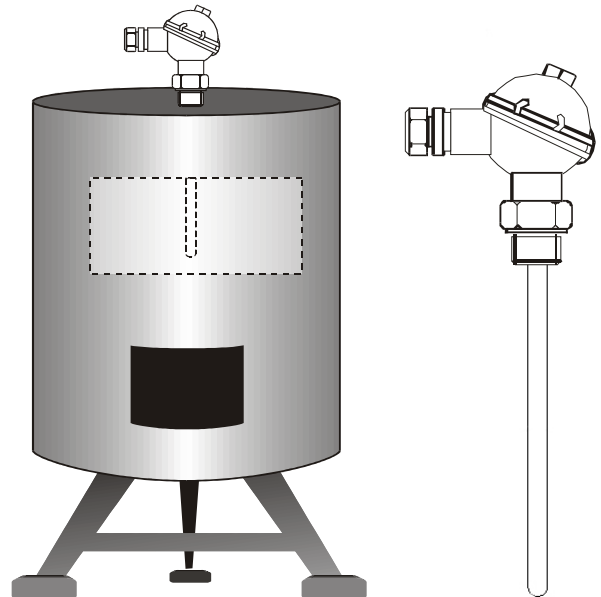
Example : TPVD-50-B-3-S-14-1000.

Model : PT 100 temperature probe class B, 3 wires with diameter of 14 mm and contact tip length of 1000 mm .
Standard measuring range **from -50°C to 250°C.**

TPV 50

Installation B

Head probe mounted vertically in the tank



Technical features

- Operating temperature**.....from -50°C to +250°C
- Accuracy**.....See "Tolerances" table
- Sensor type**.....PT100 Class B, 3 wires mounting
- Storage temperature**.....from -20°C to +80°C
- Contact tip**.....stainless steel 304 L, 14 mm diameter
Defining length according to mounting on tank
- Connection**.....Stainless steel fitting to the 1/2"G male thread
- Connection head**.....noryl resin
IP65 protection
- Electrical connection**.....terminal block with 3 screws
- Accessories**.....connection cable (lyflex 3 x 0,75 mm²)
Welding sleeve

Part numbers

To order, just add the codes to complete the part number.

Contact tip length (mm)

1000
1250
1500
2000
...*

TPV - 50 - B - 3 - S - 14* - [] - 12*

* Other dimension on request

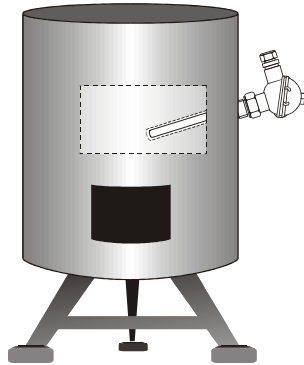
Example : TPV-50-B-3-S-14-1000.

Model : PT 100 temperature probe class B, 3 wires with diameter of 14 mm and contact tip length of 1000 mm .
Standard measuring range **from -50°C to 250°C.**

TPV 50

Installation C

Head probe mounted in a thermowell on the side of the tank



Technical features

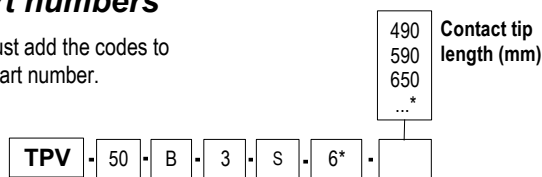
- Operating temperature**.....from -50°C to +250°C
- Accuracy**.....See "Tolerances" table
- Sensor type**.....PT100 Class B, 3 wires mounting
- Storage temperature**.....from -20°C to +80°C
- Contact tip**.....stainless steel 304 L, diameter 6 mm
Defining length according to mounting on tank
- Connection**.....Stainless steel connection to ½"G male thread
- Connection head**.....noryl resin
IP65 protection
- Electrical connection**.....terminal block with 3 screws
- Accessories**.....connecting cable (lyflex 3 x 0,75 mm²)

Thermowell features

- Contact tip**.....stainless steel 304 L, diameter of 21,3 mm
Defining length according to mounting on tank
- Connection**.....Connection to weld on the tank
Probe side : ½"G female thread
- Optional**.....shrink at 8 mm at the end of the thermowell

Part numbers

To order, just add the codes to complete part number.



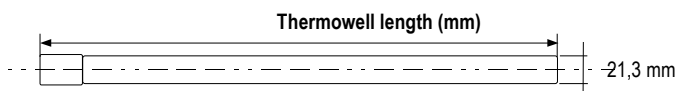
* Other dimension on request

Example : TPV-50-B-3-S-14-1000.

Model : PT 100 temperature probe class B, 3 wires with Ø 6 mm and contact tip length of 1000 mm.
Standard measuring range from -50°C to 250°C.

Wine growing thermowell

- Standard model



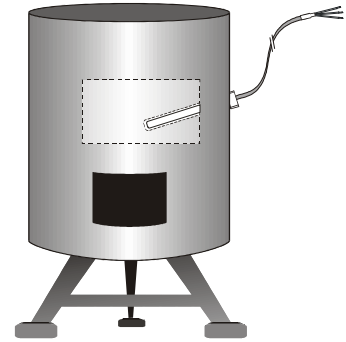
- Model with shrink



SF 50

Installation D

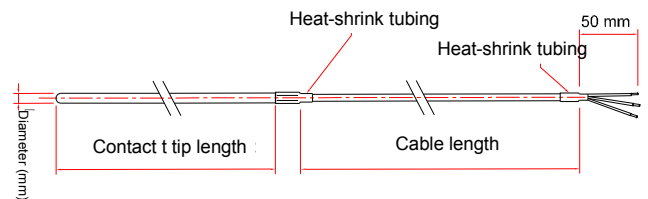
Cable probe mounted in a thermowell on the side of the tank



Technical features

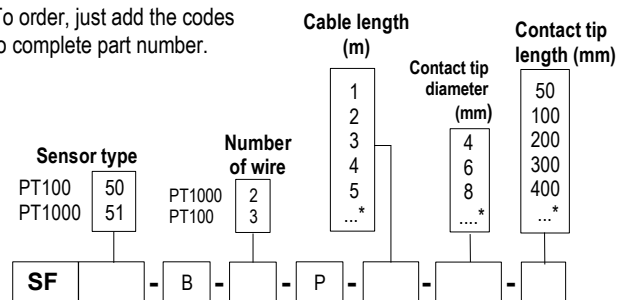
- Operating temperature**.....from -40°C to +120°C
- Accuracy**.....See "Tolerances" table
- Sensor type**.....PT100 or PT1000
- Storage temperature**.....from -20°C to +80°C
- Working temperature of cable**.....PVC : from -40°C to +120°C
- Contact tip**.....stainless steel 316 L, waterproof crimping with heat-shrink tubing

Dimensions



Part numbers

To order, just add the codes to complete part number.

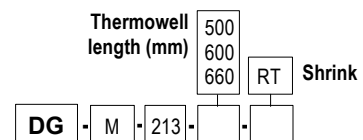


* Other dimension on request

Example : SF51-B-2-P-1-4-100

Model : PT1000 temperature probe class B, 2 wires, PVC cable of 1 m length. Stainless steel contact tip of Ø 4 mm and length of 100 mm.
Measuring range from -40 to +120°C.

- Part numbers



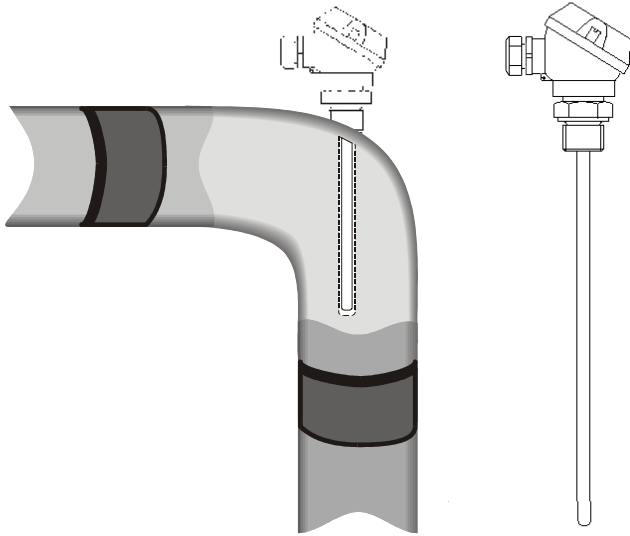
Example : DG-M-213-500-RT.

Model : thermowell with sleeve weld on the tank. Contact tip diameter of 21,3 mm and length of 500 mm with shrink of 8 mm.

TM 50

Installation E

Head probe for measuring temperature on a water pipeline

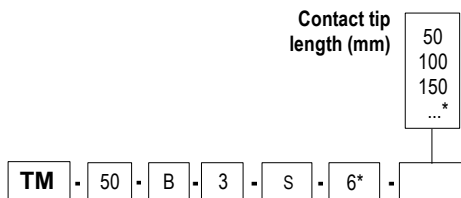


Technical features

- Operating temperature**.....from -50°C to +250°C
- Accuracy**.....See "Tolerances" table
- Sensor type**.....PT100 Class B, 3 wires mounting
- Storage temperature**.....from -20°C to +80°C
- Contact tip**.....stainless steel 316 L, diameter of 6 mm
Optional : Welding sleeve
- Connection**.....Stainless steel fitting to the 1/2"G male thread
- Connection head**.....miniature head in aluminium alloy
IP65 protection
- Electrical connection**.....terminal block with 3 screws
- Accessories**.....connection cable (lyflex 3 x 0,75 mm²)
Welding sleeve

Part numbers

To order, just add the codes to complete part number.



* Other dimension on request

Example : TM-50-B-3-S-6-50.

Model : PT 100 temperature probe class B, 3 wires with diameter of 6 mm and contact tip length of 50 mm.

Standard measuring range **from -50°C to 250°C.**

Tolerances* of Pt100 and Pt1000 resistive probes

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms

Temp °C	Tolerances	
	Class B	
	± °C	± Ohms
-100	0,8	0,32
-50	0,55	0,22
0	0,3	0,12
100	0,8	0,3
200	1,3	0,48
300	1,8	0,64
400	2,3	0,79

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 ± 0,3°C → ± 1,2 Ω

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

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