

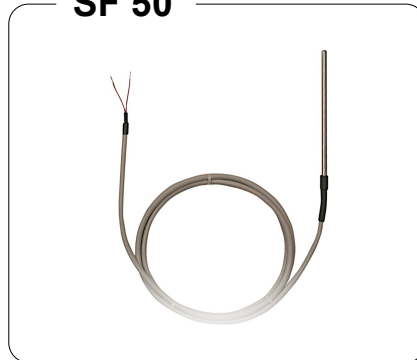
*Temperature probe at  
resistive element for wine application*

**TM 50 / TPV 50 / SF 50**

**TPV 50**



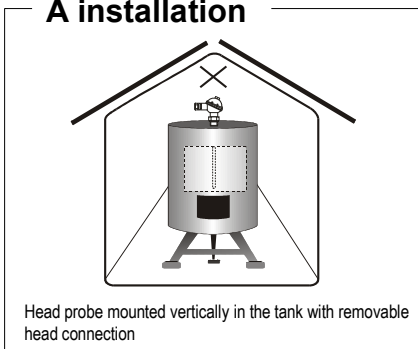
**SF 50**



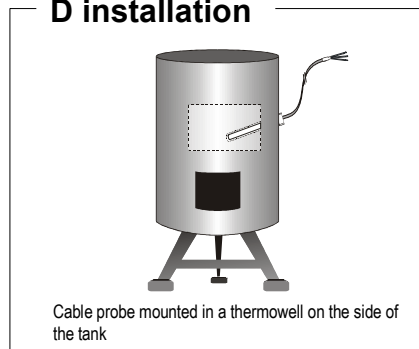
**TM 50**



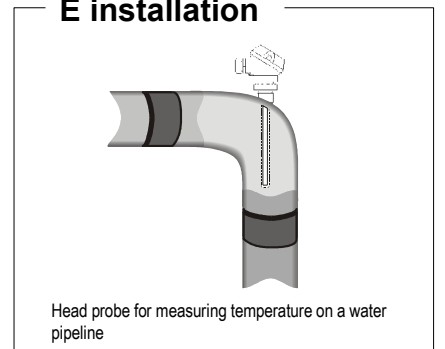
**A installation**



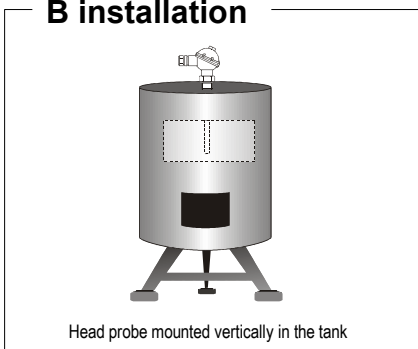
**D installation**



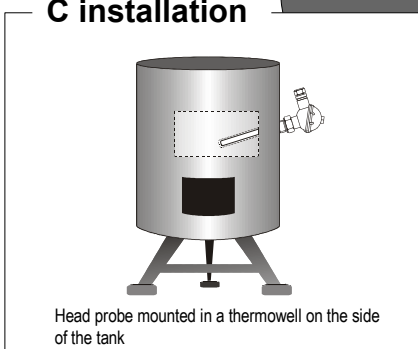
**E installation**



**B installation**



**C installation**

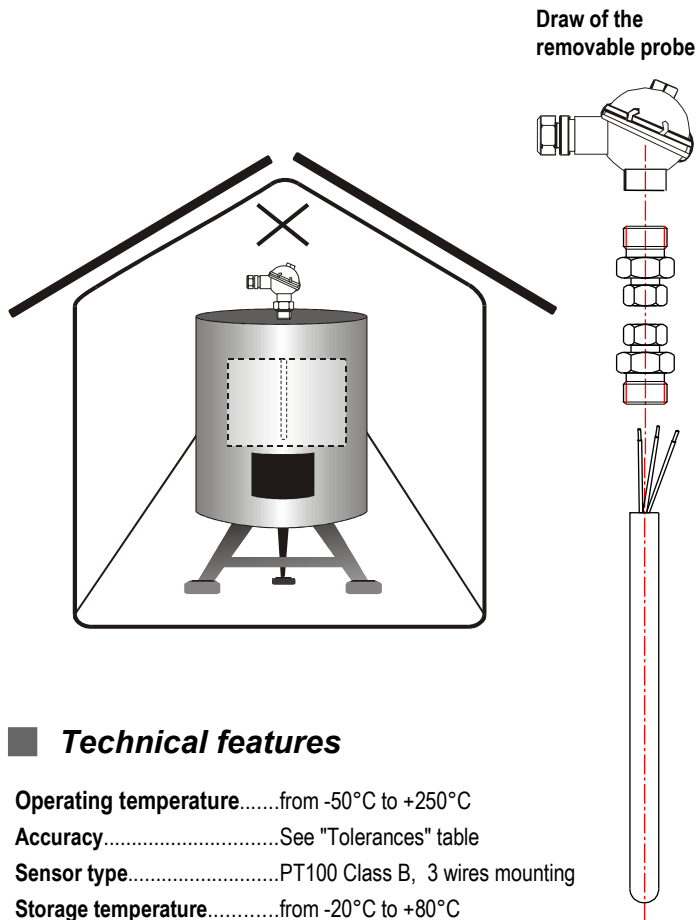


- Head or wire temperature probe with or without compression fitting and stainless steel contact tip
- **Probe with** aluminium head (TM 50) or noryl resin (TPV 50), PT 100 Class B, IP65.
- **Wire probe** PT 100 or PT 1000 Class B with Contact tip mounted on PVC cable
- Measuring range  
from -50°C to +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 ½"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 ½"G male thread  
stainless steel connection
- Electrical connection**.....terminal block with 3 screws
- Accessories**.....connection cable (lyflex 3 x 0,75 mm<sup>2</sup>)  
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

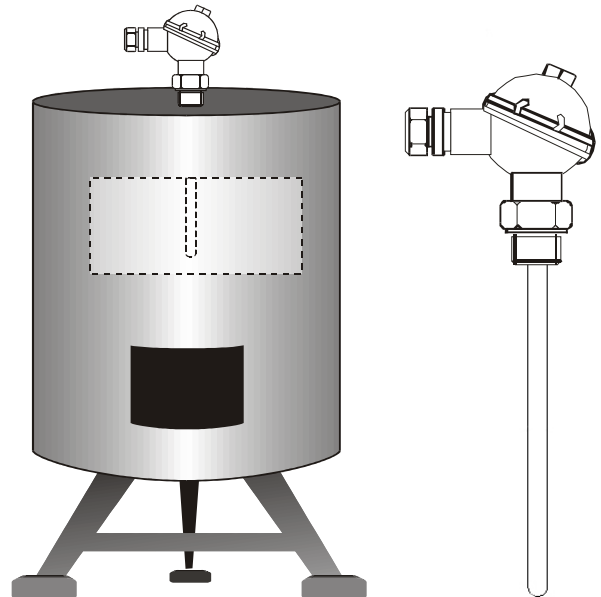
**Example :** TPVD-50-B-3-S-14-1000.

**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 ½"G male thread
- Connection head**.....noryl resin  
IP65 protection
- Electrical connection**.....terminal block with 3 screws
- Accessories**.....connection cable (lyflex 3 x 0,75 mm<sup>2</sup>)  
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

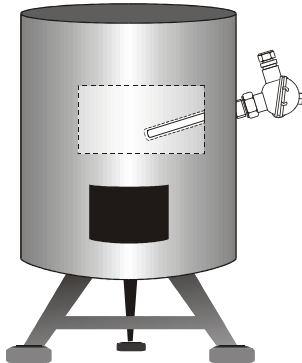
**Example :** TPV-50-B-3-S-14-1000.

**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 mm<sup>2</sup>)

### 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.

490	Contact tip length (mm)
590	
650	
...*	

TPV - 50 - B - 3 - S - 6\* - [ ]

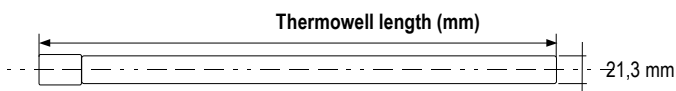
\* Other dimension on request

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

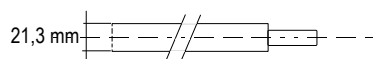
**Model :** PT 100 temperature probe class B, 3 wires with Ø 6 mm and contact tip length of 1000 mm.  
Standard measuring range from -50°C to 250°C.

## Wine growing thermowell

- Standard model



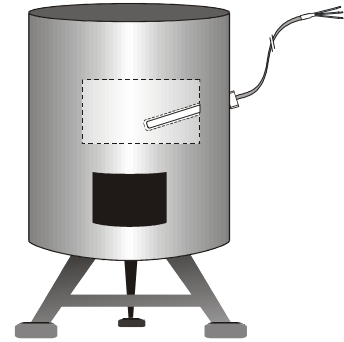
- Model with shrink



# SF 50

## Installation D

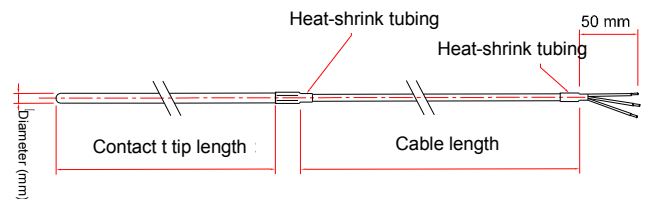
Cable probe mounted in a thermowell on the side of the tank



### 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.

Sensor type		Number of wire		Cable length (m)	Contact tip diameter (mm)	Contact tip length (mm)
PT100	50	PT1000	2	1	4	50
PT1000	51	PT100	3	2	6	100
				3	8	200
				4	...	300
				5	...	400
				...*	...	...*

SF [ ] - B - [ ] - P - [ ] - [ ] - [ ]

\* 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

Thermowell length (mm)	500	Shrink
	600	
	660	

DG - M - 213 - [ ] - [ ]

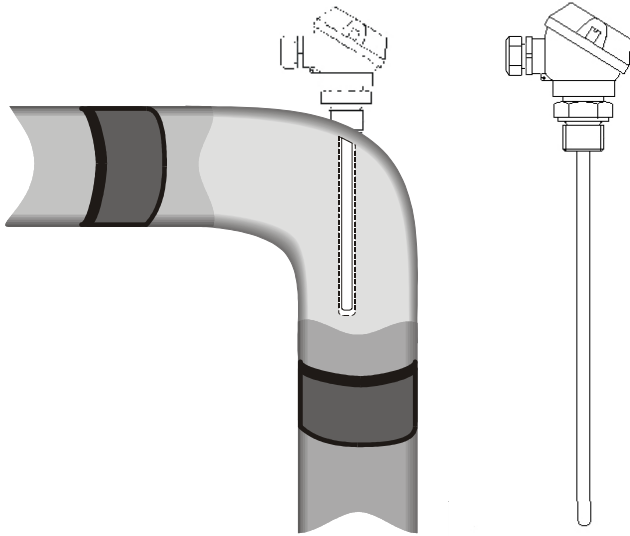
**Example :** DG-M-213-500-RT.

**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

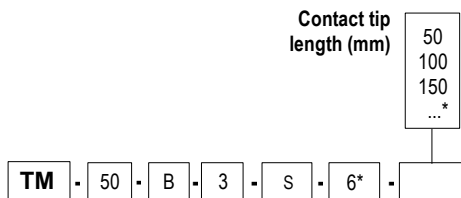


## Technical features

- 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 ½"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 mm<sup>2</sup>)  
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.

Ref. FT - wine-application - 03/07 A - RCS (24) Périgueux B349 282 095 Non-contractual document - We reserve the right to modify the characteristics of our products without prior notice.

[www.kimo.fr](http://www.kimo.fr)

Distributed by :

EXPORT DEPARTMENT

Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29

e-mail : [export@kimo.fr](mailto:export@kimo.fr)

