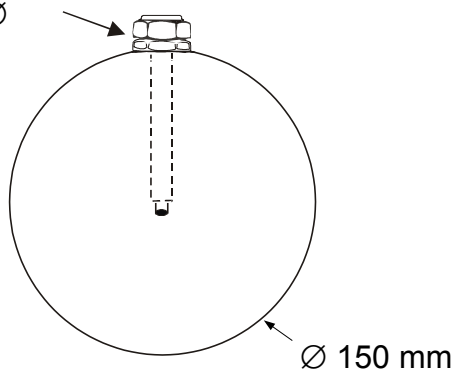


## ***Black ball thermometer***



### **■ Dimensions**

Cable gland 4  
or 6 mm Ø



### **■ Presentation**

Developed and manufactured by KIMO, the Black Ball Thermometer is for measuring radiant temperature.

Based on the black body principle, it consists of one sphere, which is equipped with a liquid expansion thermometer, Pt 100 or thermocouple temperature probe .

It's an accurate, reliable and user-friendly instrument.

It's also adaptable on every types of thermometers.

### **■ Application**

The human body is comfortable only in an environment where the temperature and the air movements are kept within established limits.

For the comfort and good health of human or animals, the black ball thermometer gives a direct measurement of the average radiant temperature.

This temperature, perceived by the body, is radiated by all surrounding surfaces, walls, floor, furniture and equipment.

The black ball thermometer is particularly useful in working area's veterinary laboratories and animal breeding.

## ■ Technical features of the black ball

<b>Sphere</b> .....	hollow in brass, Ø 150 mm thickness 6/10 mm.
<b>Stuffing box</b> .....	for fixation of the Pt100 or the sheath at the centre of the sphere
<b>Coating</b> .....	multi-coat paint, high temperature 600 °C, mat black with 0.95 average emission coefficient
<b>Standards</b> .....	complies with the recommendations of the NF ISO 7726 Std relative to the "thermal environment", X35-201 and X35-202 Std relative to the "thermal constraints of the working man".

## ■ Technical features of thermometers

### • Liquid expansion thermometer

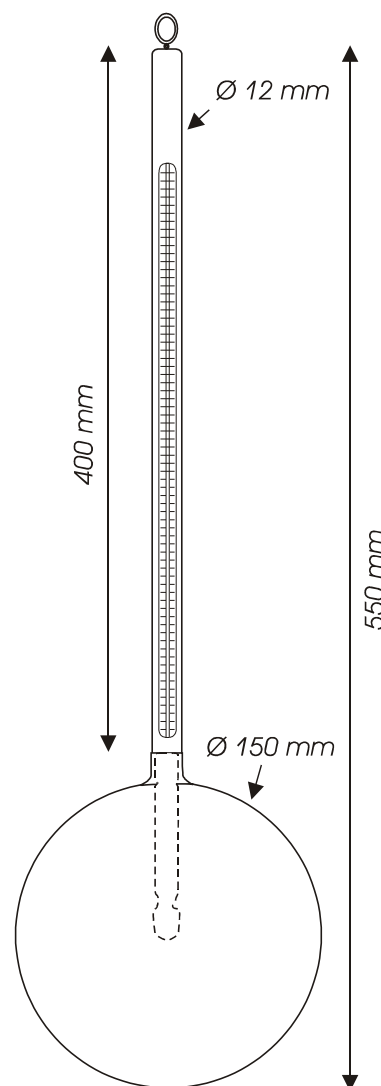
<b>Protection sheath</b> .....	in brass, length. 400 mm, Ø 12 mm, equipped with a suspension ring.
<b>Measuring range</b> .....	from 0 to 60°C.
<b>Resolution</b> .....	0,5°C
<b>Scale length</b> .....	280 mm.
<b>Total length</b> .....	550 mm.
<b>Weight</b> .....	400 g

### • Pt100 probe

<b>Class and range</b> .....	on demand.
<b>Number of wire</b> .....	3 or 4 wires.
<b>Cable gland</b> .....	Ø 6 or Ø 4 mm.

### • Thermocouple probe

<b>Type</b> .....	K, J, N on demand.
<b>Measuring range</b> .....	from -50 to +200°C.
<b>Cable gland</b> .....	Ø 6 or Ø 4 mm.



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