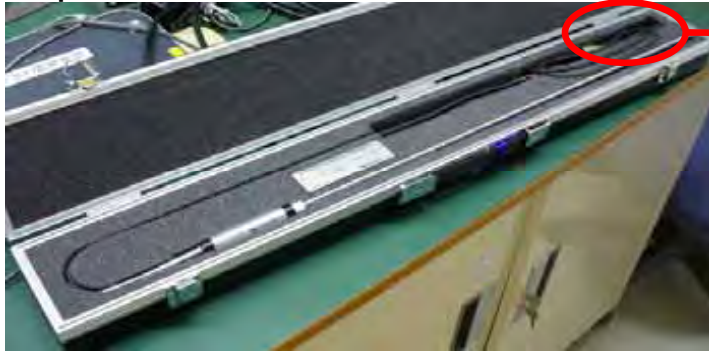


# Standard platinum resistance thermometer (JMA standard)

## 【 Composition 】



Standard platinum resistance thermometer sensor



Part of resistance  
(Platinum wire is wound around a thin plate of mica )



AC current bridge

## 【Principle of measurement】

The resistance of platinum varies with temperature, and a platinum resistance thermometer measures temperature by ascertaining this resistance.

Example)

$$107.79[\Omega] = 20[^\circ\text{C}]$$

$$100.00[\Omega] = 0[^\circ\text{C}]$$

$$92.16[\Omega] = -20[^\circ\text{C}]$$

