



FLEXIBLE SENSOR FOR SURFACE MEASUREMENT TYPE SP

SPECIFICATIONS

- **Temperature sensor**
- **Temperature measurement on flat and curved surfaces (minimal curvature radius: 25 mm)**
- **From -70°C to +200°C**
- **No hysteresis**
- **Limited resistance against vibration**

A platinum resistance covered by a silicone layer

FEATURES

- Nominal value: 100 Ω at 0°C
Tolerance according to IEC 60751: class W 0.3, W 0.15 and W 0.1
Temperature coefficient $\alpha=3850$ ppm/k
- Connection wires: 3 or 4 wires CuAg.
Twisted cable
- Housing advise: SP 683 0,1 to 3 mA
Do not used without protection in aggressive environment (oils, solvent...)
Keep the curvature radius (minimal 25 mm)
- Options:
 - Rigid aluminum protection (GAL version)
 - Silicone cable connections (CPE version)
 - Various length of cable
 - ATEX Exi model: contact us

APPLICATION

- Temperature measurement on curved surfaces (minimal curvature radius : 25mm)
- Laboratory
- Chemical and pharmaceutical industry
- Medical applications. A body temperature measurement
- Electronic industry

PERFORMANCE SPECIFICATIONS

Ref.	Self-heating coefficient (K/mW)		Response time T0,5 (s)	
	Water $v=0,2\text{m/s}$	Air $v=1\text{m/s}$	Water $v=0,2\text{m/s}$	Air $v=1\text{m/s}$
SP 683	0,002	0,03	0,5	9
SP 683 GAL	0,002	0,03	0,5	12