



# Resistance thermometer Drum surface sensor Series GF-7144

## PRODUCT FEATURES

- ✓ Resistance thermometer  
acc. to DIN EN 60751
- ✓ High precision measuring system
- ✓ Single / double measuring system
- ✓ Vibration resistant design
- ✓ High temperature resistance
- ✓ Durable
- ✓ Process and fail safe
- ✓ Temperature and long-term stable
- ✓ FDA compliant version

## TECHNICAL DETAILS

### Core values

PT50/PT100/PT500/PT1000  
KTY/NTC/PTC

### Diameter

25,0 mm as standard

### Design of the measuring tip

Plan or matching radius  
Radius from 50 mm to 500 mm

### Nominal length

Straight version 110 mm  
Angled version 85 mm

### Material

Stainless steel (housing)  
Teflon / silver (measuring tip)

### Kink protection spring

Stainless steel

### Process temp. at the measuring tip

Up to +260 °C depending on version

### Process connection

Flange  
Mounting bracket

### High quality inner wires

Optional pure silver

### Connectivity

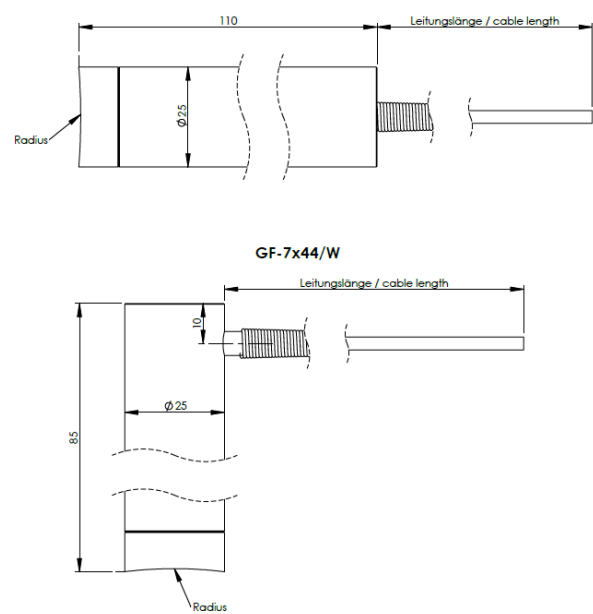
Free ends, plug

### Special version

Customized, on request

|                                                                     |  |                 |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------|--|-----------------|--|--|--|--|--|--|--|--|--|
| Standard version                                                    |  |                 |  |  |  |  |  |  |  |  |  |
|                                                                     |  | GF-7144         |  |  |  |  |  |  |  |  |  |
| Cable outlet                                                        |  |                 |  |  |  |  |  |  |  |  |  |
| Straight                                                            |  | /G              |  |  |  |  |  |  |  |  |  |
| Angled (90°)                                                        |  | /W              |  |  |  |  |  |  |  |  |  |
| Number of measuring systems                                         |  |                 |  |  |  |  |  |  |  |  |  |
| 1x                                                                  |  | 1               |  |  |  |  |  |  |  |  |  |
| 2x                                                                  |  | 2               |  |  |  |  |  |  |  |  |  |
| Core values measuring system                                        |  |                 |  |  |  |  |  |  |  |  |  |
| PT100 Class B DIN EN 60751                                          |  | n/a             |  |  |  |  |  |  |  |  |  |
| PT100 Class A DIN EN 60751                                          |  | K1A             |  |  |  |  |  |  |  |  |  |
| PT100 Class AA DIN EN 60751                                         |  | K1AA            |  |  |  |  |  |  |  |  |  |
| PT50/PT500/KTY/NTC/PTC + Type                                       |  | KTY             |  |  |  |  |  |  |  |  |  |
| Further versions on request                                         |  |                 |  |  |  |  |  |  |  |  |  |
| Types of electrical circuits                                        |  |                 |  |  |  |  |  |  |  |  |  |
| 2-wire-circuit                                                      |  | n/a             |  |  |  |  |  |  |  |  |  |
| 3-wire-circuit                                                      |  | 3-L             |  |  |  |  |  |  |  |  |  |
| 4-wire-circuit                                                      |  | 4-L             |  |  |  |  |  |  |  |  |  |
| Diameter of the measuring tip                                       |  |                 |  |  |  |  |  |  |  |  |  |
| 25 mm standard                                                      |  | 25              |  |  |  |  |  |  |  |  |  |
| Mention in mm                                                       |  |                 |  |  |  |  |  |  |  |  |  |
| Drum diameter / surface                                             |  |                 |  |  |  |  |  |  |  |  |  |
| Surface „PLAN“                                                      |  | P               |  |  |  |  |  |  |  |  |  |
| Cylinder radius                                                     |  | 250             |  |  |  |  |  |  |  |  |  |
| Mention in mm                                                       |  |                 |  |  |  |  |  |  |  |  |  |
| Cable length                                                        |  |                 |  |  |  |  |  |  |  |  |  |
| Mention in mm                                                       |  | 3000            |  |  |  |  |  |  |  |  |  |
| Cable type                                                          |  |                 |  |  |  |  |  |  |  |  |  |
| Glass fiber - Glass fiber – stainless steel braid                   |  | without mention |  |  |  |  |  |  |  |  |  |
| Glass fiber - Glass fiber – stainless steel braid - PTFE            |  | GL-GL-PVA-TE    |  |  |  |  |  |  |  |  |  |
| Teflon-Silicone                                                     |  | TE-SI           |  |  |  |  |  |  |  |  |  |
| Teflon-braid-Teflon                                                 |  | TE-C-TE         |  |  |  |  |  |  |  |  |  |
| Silicone-Silicone                                                   |  | SI-SI           |  |  |  |  |  |  |  |  |  |
| Check cable types                                                   |  |                 |  |  |  |  |  |  |  |  |  |
| Connection                                                          |  |                 |  |  |  |  |  |  |  |  |  |
| Free Ends, 60 mm                                                    |  | A               |  |  |  |  |  |  |  |  |  |
| Check ends                                                          |  | PRF             |  |  |  |  |  |  |  |  |  |
| LEMO plug + number of poles + size                                  |  | LST2P1S         |  |  |  |  |  |  |  |  |  |
| Round plug screw lock + number of poles                             |  | DST3PS          |  |  |  |  |  |  |  |  |  |
| M 12 Round plug + number of poles                                   |  | EST-M12-4P      |  |  |  |  |  |  |  |  |  |
| On request, see datasheet connectors                                |  |                 |  |  |  |  |  |  |  |  |  |
| Temperature measuring tip                                           |  |                 |  |  |  |  |  |  |  |  |  |
| Mention in °C                                                       |  | 260°C           |  |  |  |  |  |  |  |  |  |
| Order code (example) → GF-7144 /G .1. -. -. 25. 250. 3000. A. 260°C |  |                 |  |  |  |  |  |  |  |  |  |

DIMENSIONS



DIGITAL DATA  
2D, 3D and CAD

to Download

