

# Resistance thermometer Surface sensor non-contact Series GF-7144

## PRODUCT FEATURES

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

## TECHNICAL DETAILS

### Core values

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

### Diameter

20,0 mm – 40,00 mm in standard

### Form off he measuring tip

Plan or matching curvature

### Nominal length

Min. 50mm up to max. 300mm

### Material

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

### Process temp. at the measuring tip

Up to +260°C depending on version

### Process connection

Flange  
Mounting bracket

### High quality inner wires

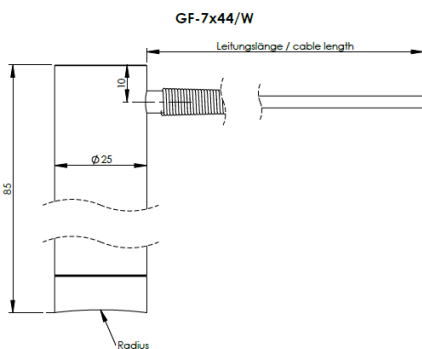
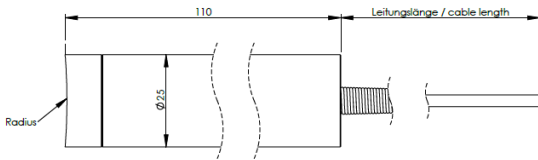
Pure silver wires (option)

### Special version

Customized, on request

|  |           |   |      |      |  |                 |            |       |  |
|--|-----------|---|------|------|--|-----------------|------------|-------|--|
| <b>Standard version</b>  |           |   |      |      |  |                 |            |       |  |
| STRAIGHT   | GF-7144   |   |      |      |  |                 |            |       |  |
| ANGLED (cable outlet 90°)  | GF-7144/W |   |      |      |  |                 |            |       |  |
| <b>Number of measuring systems</b>                               |           |   |      |      |  |                 |            |       |  |
| 1x   |           | 1 |      |      |  |                 |            |       |  |
| 2x   |           | 2 |      |      |  |                 |            |       |  |
| <b>Core values measuring system</b>                              |           |   |      |      |  |                 |            |       |  |
| PT100 Class B  |           |   | n/a  |      |  |                 |            |       |  |
| PT100 Class A  |           |   | K1A  |      |  |                 |            |       |  |
| PT100 Class AA   |           |   | K1AA |      |  |                 |            |       |  |
| PT50/PT500/KTY/NTC/PTC + Type                                    |           |   | KTY  |      |  |                 |            |       |  |
| Further versions on request                                      |           |   |      |      |  |                 |            |       |  |
| <b>Types of electrical circuits</b>                              |           |   |      |      |  |                 |            |       |  |
| 2-wire-circuit   |           |   | n/a  |      |  |                 |            |       |  |
| 3-wire-circuit   |           |   | 3-L  |      |  |                 |            |       |  |
| 4-wire-circuit   |           |   | 4-L  |      |  |                 |            |       |  |
| Further versions on request                                      |           |   |      |      |  |                 |            |       |  |
| <b>Diameter / surface</b>  |           |   |      |      |  |                 |            |       |  |
| Surface „PLAN“   |           |   | P    |      |  |                 |            |       |  |
| Cylinder radius  |           |   | 250  |      |  |                 |            |       |  |
| Mention in mm  |           |   |      |      |  |                 |            |       |  |
| <b>Cable length</b>  |           |   |      |      |  |                 |            |       |  |
| Mention in mm  |           |   |      | 3000 |  |                 |            |       |  |
| <b>Cable type</b>  |           |   |      |      |  |                 |            |       |  |
| 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  |           |   |      |      |  |                 |            |       |  |
| <b>Connection</b>  |           |   |      |      |  |                 |            |       |  |
| Free Ends, 60 mm   |           |   |      |      |  |                 | A          |       |  |
| Check ends   |           |   |      |      |  |                 | PRF        |       |  |
| LEMO plug + size + number of poles                               |           |   |      |      |  |                 | LST2PS     |       |  |
| Round plug screw lock + size + number of poles                   |           |   |      |      |  |                 | DST3PS     |       |  |
| M 12 Round plug + number of poles                                |           |   |      |      |  |                 | EST-M12-4P |       |  |
| Check plug types   |           |   |      |      |  |                 |            |       |  |
| <b>Temperature measuring tip</b>                                 |           |   |      |      |  |                 |            |       |  |
| Mention in °C  |           |   |      |      |  |                 |            | 260°C |  |
| <b>Order code (example)</b> → GF-7144 1 -. -. 250. 3000. A 260°C |           |   |      |      |  |                 |            |       |  |

MEASURES





DIGITAL DATA  
2D, 3D and CAD

to Download