



# Thermocouple Plunge-in sensor with handle Series GF-7048

## PRODUCT FEATURES

- ✓ Thermocouples  
acc. to DIN EN 60584
- ✓ High precision thermo cable
- ✓ Single / double measuring system
- ✓ Electrical isolated or not isolated
- ✓ Durable
- ✓ Process and failsafe
- ✓ Temperature and long term stable
- ✓ FDA compliant version

## TECHNICAL DETAILS

**Thermo voltage**  
Fe-CuNi/J-L, NiCr-Ni/K

**Diameter**  
4,0 mm as standard

**Form of the measuring tip**  
Pointed, bevelled, flat, spherical, angled

**Nominal length**  
Min. 10 mm up to max. 2000 mm

**Material Measuring tip**  
Stainless steel 1.4571 / 1.4404

**Process temp. at the measuring tip**  
Up to +400 °C depending on version

**Versions of the handle**  
Teflon or stainless steel

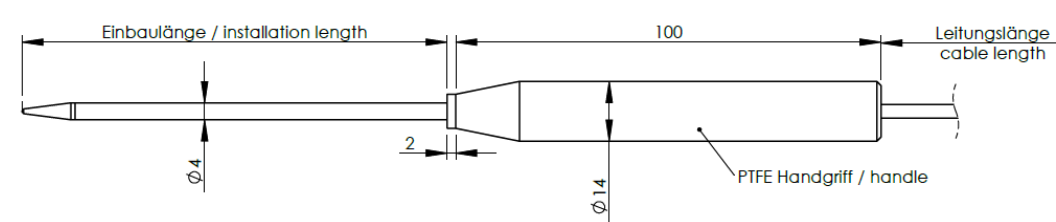
**High – quality cable types**  
Thermocouple cables  
All available versions

**Connectivity**  
Free ends, plug

**Special version**  
Customized, on request

|                                                          |         |  |      |               |    |      |    |                 |               |       |          |        |       |
|----------------------------------------------------------|---------|--|------|---------------|----|------|----|-----------------|---------------|-------|----------|--------|-------|
| Standard version                                         |         |  |      |               |    |      |    |                 |               |       |          |        |       |
|                                                          | GF-7048 |  |      |               |    |      |    |                 |               |       |          |        |       |
| Special version                                          |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Special version                                          |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Number of measuring systems                              |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| 1x                                                       |         |  | 1    |               |    |      |    |                 |               |       |          |        |       |
| 2x                                                       |         |  | 2    |               |    |      |    |                 |               |       |          |        |       |
| Type of element                                          |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Fe-CuNi Type J DIN EN 60584                              |         |  | FK-J |               |    |      |    |                 |               |       |          |        |       |
| Fe-CuNi Type L DIN 43710                                 |         |  | FK-L |               |    |      |    |                 |               |       |          |        |       |
| NiCr-Ni Type K DIN EN 60584                              |         |  | NC   |               |    |      |    |                 |               |       |          |        |       |
| Electrical properties                                    |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Grounded                                                 |         |  |      | e             |    |      |    |                 |               |       |          |        |       |
| Isolated                                                 |         |  |      | i             |    |      |    |                 |               |       |          |        |       |
| Diameter measuring tube                                  |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| 4,0 mm as standard                                       |         |  |      | 4,0           |    |      |    |                 |               |       |          |        |       |
| Mention in mm                                            |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Form of the measuring tube (check Graphic below)         |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Flat                                                     |         |  |      | P             |    |      |    |                 |               |       |          |        |       |
| Angled 118°                                              |         |  |      | W             |    |      |    |                 |               |       |          |        |       |
| Spherically                                              |         |  |      | B             |    |      |    |                 |               |       |          |        |       |
| Pointed                                                  |         |  |      | S             |    |      |    |                 |               |       |          |        |       |
| Bevelled                                                 |         |  |      | SCH           |    |      |    |                 |               |       |          |        |       |
| Special version                                          |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Nominal length of the measuring tube                     |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| 100 mm                                                   |         |  |      | 100           |    |      |    |                 |               |       |          |        |       |
| Mention in mm                                            |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Version of the handle                                    |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| E = Extension + length + material                        |         |  |      | E=14x100/PTFE |    |      |    |                 |               |       |          |        |       |
| Cable length in mm                                       |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Mention in mm                                            |         |  |      |               |    |      |    | XXXX            |               |       |          |        |       |
| Cable type                                               |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Glass fiber - Glass fiber – stainless steel braid        |         |  |      |               |    |      |    | without mention |               |       |          |        |       |
| Glass fiber - Glass fiber – stainless steel braid - PTFE |         |  |      |               |    |      |    | GL-GL-PVA-TE    |               |       |          |        |       |
| Teflon – shield - silicone                               |         |  |      |               |    |      |    | TE-C-SI         |               |       |          |        |       |
| Check cable types                                        |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Connection                                               |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Free Ends, 60 mm                                         |         |  |      |               |    |      |    |                 |               |       |          | A      |       |
| Check ends                                               |         |  |      |               |    |      |    |                 |               |       |          | PRF    |       |
| Thermo plug “S” standard / “M” mini / “X” element        |         |  |      |               |    |      |    |                 |               |       |          | TSTXS  |       |
| Round plug “C” 3-pole bayonet lock                       |         |  |      |               |    |      |    |                 |               |       |          | CST3PB |       |
| Round plug “C” 3-pole screw lock                         |         |  |      |               |    |      |    |                 |               |       |          | CST3PS |       |
| On request, see datasheet connectors                     |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Temperature measuring tip                                |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| Mention in °C                                            |         |  |      |               |    |      |    |                 |               |       |          | 400°C  |       |
| Order code (example)                                     |         |  |      |               |    |      |    |                 |               |       |          |        |       |
| →                                                        | GF-7048 |  | .1.  | FK-J.         | e. | 4,0. | S. | 100.            | E=14x100/PTFE | 3000. | TE-C-SI. | A.     | 400°C |

DIMENSIONS



DIGITAL DATA  
2D, 3D and CAD

to Download