



## Resistance thermometer Screw in sensor with terminal head, stepped Series GF-8101 & GF-8101/A

### 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
- ✓ ATEX version
- ✓ FDA / CE compliant version

### TECHNICAL DETAILS

#### Core values

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

#### Protection tube diameter

3/5 mm to 8/10 mm as standard

#### Installation length

Min. 10 mm up to max. 2000 mm

#### Screw thread

DIN 910 fixed screw thread  
Compression fitting  
Tri-Clamp

#### Thread sizes

G1/4, G3/8, G1/2, G1, M12, M20  
Further versions on request

#### Process temp. at the measuring tip

Up to +800 °C depending on version

#### Connection head versions

BK, KK, AK, PK with or without  
transmitter

#### Optional versions

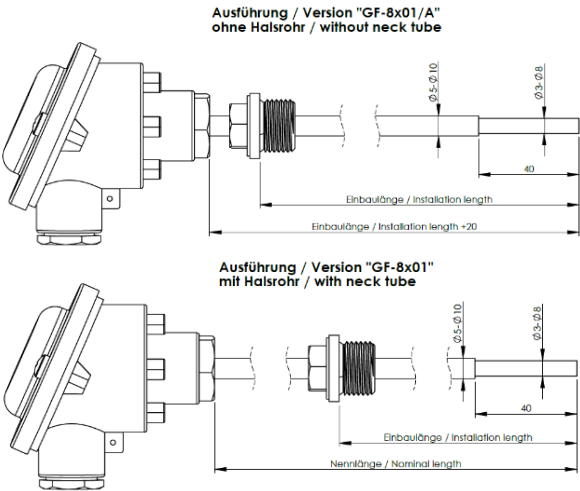
Vibration-resistant version (optional)  
Measuring insert (optional)  
Further versions on request

#### Protection tube material

Stainless steel 1.4571  
Stainless steel 1.4404

|                                             |             |     |       |      |       |    |      |      |    |  |     |  |       |
|---------------------------------------------|-------------|-----|-------|------|-------|----|------|------|----|--|-----|--|-------|
| Standard version                            |             |     |       |      |       |    |      |      |    |  |     |  |       |
| GF-8101                                     |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Special version                             |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Version without neck tube                   | /A          |     |       |      |       |    |      |      |    |  |     |  |       |
| ATEX                                        | /EX         |     |       |      |       |    |      |      |    |  |     |  |       |
| 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 650751                 | K1.A        |     |       |      |       |    |      |      |    |  |     |  |       |
| PT100 Class AA DIN EN 60751                 | K1.AA       |     |       |      |       |    |      |      |    |  |     |  |       |
| 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 protection tube                    |             |     |       |      |       |    |      |      |    |  |     |  |       |
| 3/5 mm                                      | 3/5         |     |       |      |       |    |      |      |    |  |     |  |       |
| 4/6 mm                                      | 4/6         |     |       |      |       |    |      |      |    |  |     |  |       |
| 6/8 mm                                      | 6/8         |     |       |      |       |    |      |      |    |  |     |  |       |
| 6/10 mm                                     | 6/10        |     |       |      |       |    |      |      |    |  |     |  |       |
| 8/10 mm                                     | 8/10        |     |       |      |       |    |      |      |    |  |     |  |       |
| Angabe in mm                                |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Material protection tube                    |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Stainless steel 1.4571                      | D           |     |       |      |       |    |      |      |    |  |     |  |       |
| Stainless steel 1.4404                      | A           |     |       |      |       |    |      |      |    |  |     |  |       |
| Further versions on request                 |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Installation length incl. thread            |             |     |       |      |       |    |      |      |    |  |     |  |       |
| 100 mm                                      | 100         |     |       |      |       |    |      |      |    |  |     |  |       |
| Mention in mm                               |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Nominal length for standard version         |             |     |       |      |       |    |      |      |    |  |     |  |       |
| 150 mm                                      | 150         |     |       |      |       |    |      |      |    |  |     |  |       |
| Mention in mm                               |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Version with measuring insert               |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Measuring insert                            | ML          |     |       |      |       |    |      |      |    |  |     |  |       |
| Thread sizes                                |             |     |       |      |       |    |      |      |    |  |     |  |       |
| G1/4                                        | 43          |     |       |      |       |    |      |      |    |  |     |  |       |
| G3/8                                        | 44          |     |       |      |       |    |      |      |    |  |     |  |       |
| G1/2                                        | 82          |     |       |      |       |    |      |      |    |  |     |  |       |
| G1                                          | 84          |     |       |      |       |    |      |      |    |  |     |  |       |
| M12x1                                       | 41          |     |       |      |       |    |      |      |    |  |     |  |       |
| M20                                         | M20         |     |       |      |       |    |      |      |    |  |     |  |       |
| Version with compression fitting (KLV)      | KLV+thread  |     |       |      |       |    |      |      |    |  |     |  |       |
| Further version on request                  |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Connection terminal versions                |             |     |       |      |       |    |      |      |    |  |     |  |       |
| B-head terminal                             | BK          |     |       |      |       |    |      |      |    |  |     |  |       |
| K-head terminal                             | KK          |     |       |      |       |    |      |      |    |  |     |  |       |
| A-head terminal                             | AK          |     |       |      |       |    |      |      |    |  |     |  |       |
| P-head terminal                             | PK          |     |       |      |       |    |      |      |    |  |     |  |       |
| Further versions on request                 |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Signal-transmitter option                   |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Signal-transmitter 4-20 mA                  | MU4-20mA    |     |       |      |       |    |      |      |    |  |     |  |       |
| Signal-transmitter option temperature range |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Mention in °C                               | 0°C...400°C |     |       |      |       |    |      |      |    |  |     |  |       |
| Temperature measuring tip                   |             |     |       |      |       |    |      |      |    |  |     |  |       |
| Mention in °C                               | 400°C       |     |       |      |       |    |      |      |    |  |     |  |       |
| Order code (example) →                      | GF-8101     | .1. | K1.A. | 3-L. | 8/10. | D. | 100. | 150. | -. |  | BK. |  | 400°C |

DIMENSIONS



DIGITAL DATA  
2D, 3D and CAD

to Download