

# Electronic Temperature Transducer

**UTA2**

Stainless steel,  
accuracy 0.5% f.s.

## Measuring ranges

0...+100 °C to -30...+150 °C

## Features

Electronic temperature transducer with PT100 sensor  
Stainless steel  
Compact construction

## Applications

Hydraulics and pneumatics, machine and process industry,  
mobile applications, test beds, marine applications

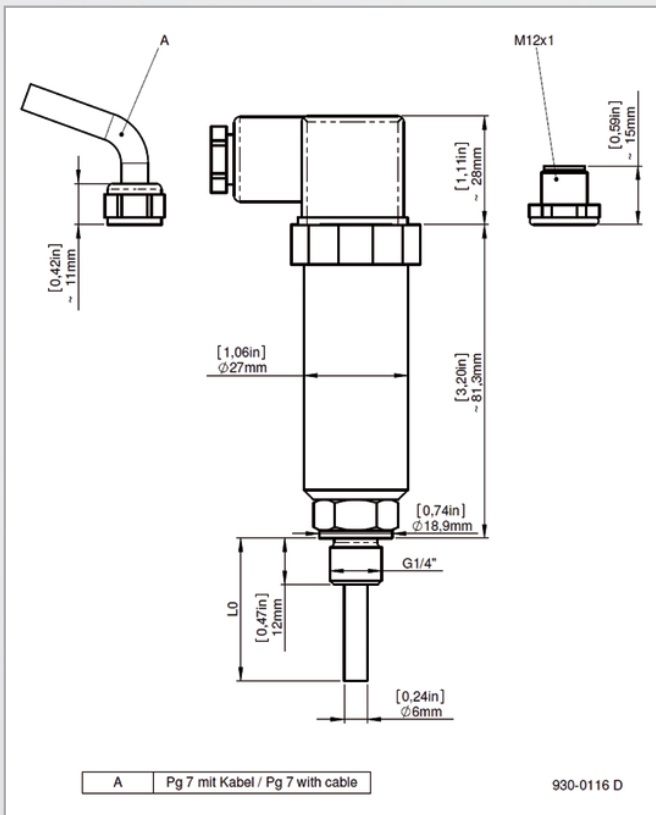


## Technical Data

|                               |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| <b>Sensor:</b>                | Pt100 (Class B), DIN IEC 751                                          |
| <b>Materials:</b>             |                                                                       |
| Wetted Parts                  | Stainless steel 1.4571                                                |
| Housing (Electronics)         | Stainless steel 1.4571                                                |
| Seals                         | FKM, EPDM                                                             |
| <b>Protection class:</b>      | IP65 plug, IP67 cable                                                 |
| <b>Process connection:</b>    | G 1/4 male, nut across flats 19mm                                     |
| <b>Dimensions:</b>            | see drawings                                                          |
| <b>Weight:</b>                | 130 g                                                                 |
| <b>Measuring ranges:</b>      | -30 °C...+100 °C, -30 °C...+150 °C,<br>0 °C...+100 °C, 0 °C...+150 °C |
| <b>Proof Pressure:</b>        | max. 200 bar, others on request                                       |
| <b>Linearity error:</b>       | ≤±0.5 % f. s.                                                         |
| <b>Time constant:</b>         | appr. 40 s                                                            |
| <b>Electrical connection:</b> | PG7 incl. 1.5 m cable<br>plug M12 x 1; 5-pin                          |
| <b>Sensor length:</b>         | 17 mm, 50 mm                                                          |

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| <b>Sensor diameter:</b>   | 6 mm                                                                                     |
| <b>Hysteresis:</b>        | ≤± 0.1 % f. s.                                                                           |
| <b>Repeatability:</b>     | ≤± 0.1 % f. s.                                                                           |
| <b>Temperature range:</b> | -30 °C...+150 °C (Media)<br>-25 °C...+ 80 °C (Electronics)<br>-40 °C...+100 °C (Storage) |
| <b>Power supply:</b>      | 10...30 V DC SELV/PELV<br>13...30 V DC SELV/PELV at 0...10 V                             |
| <b>Output signals:</b>    | 4...20 mA (2wire)<br>0...10 V DC (3-wire)                                                |
| <b>Power consumption:</b> | max. 30 mA at current output<br>max. 10 mA at load                                       |
| <b>Load:</b>              | ≤ (Ub-8V) / 0.02 A                                                                       |
| <b>Accessories:</b>       | conduit, electrical plugs                                                                |

### Dimensions (mm / inch)



### Electrical Connection

|            | Current output<br>4-20 mA (2-wire) |       | Voltage output<br>0-10 V (3-wire) |       |
|------------|------------------------------------|-------|-----------------------------------|-------|
| Connection | Plug                               | Cable | Plug                              | Cable |
| + Supply   | 1                                  | brown | 1                                 | brown |
| - Supply   | 2                                  | white | 2                                 | blue  |
| + Signal   | ---                                |       | 3                                 | white |
| - Signal   | ---                                |       | ---                               |       |

### Order Numbers

| Temperature Transmitter with 4-20 mA, M12x1 |                   |                     |
|---------------------------------------------|-------------------|---------------------|
| Art. No.                                    | Temp. Range in °C | Sensor length in mm |
| 0631-053                                    | 0 ..... 100       | 17                  |
| 0631-054                                    | -30 ..... +150    | 17                  |
| 0631-055                                    | 0 ..... 100       | 50                  |
| 0631-056                                    | -30 ..... +150    | 50                  |