

# Electronic Temperature Transducer

UTA2

Index: D / 923-1846

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

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

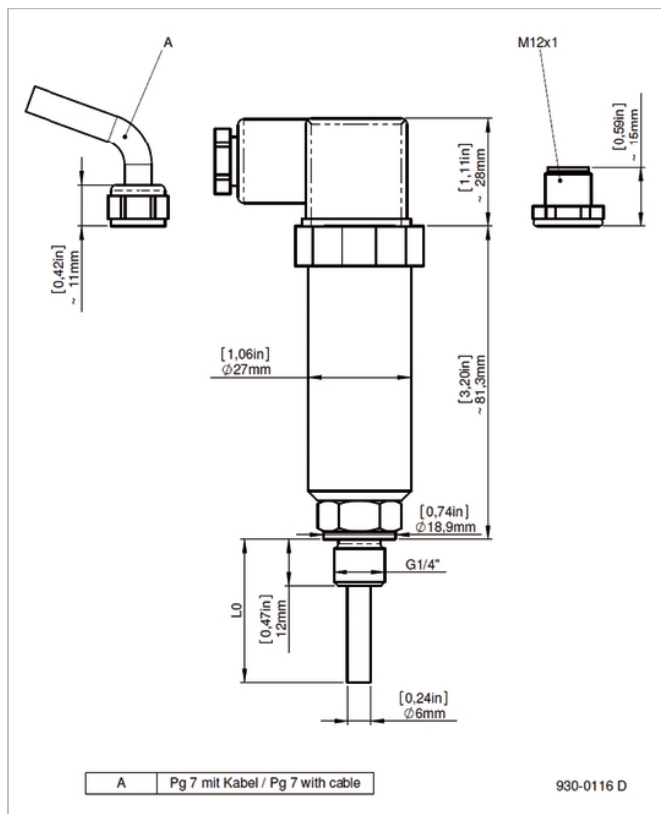
|                    |                                                                                   |
|--------------------|-----------------------------------------------------------------------------------|
| Sensor diameter:   | 6 mm                                                           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

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### Dimensions (mm / inch)



### Electrical Connection

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

| 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                  |