

# 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 Housing (Electronics) Seals	Stainless steel 1.4435 Stainless steel 1.4435 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, 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 plug M12 x 1; 5-pin
<b>Sensor length:</b>	17 mm, 50 mm

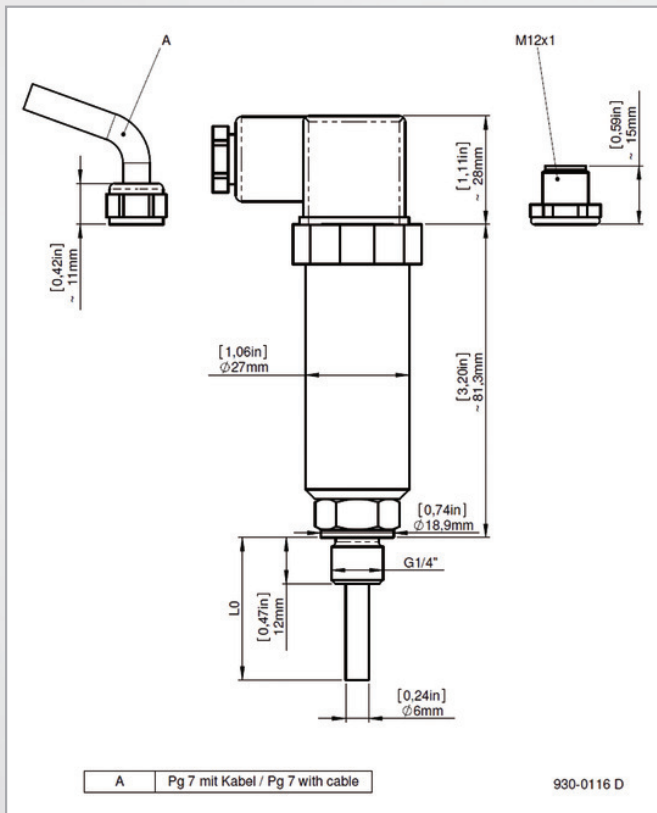
<b>Sensor diameter:</b>	6 mm
<b>Hysteresis:</b>	≤± 0.1 % f. s.
<b>Repeatability:</b>	≤± 0.1 % f. s.
<b>Temperature range:</b>	-30 °C...+150 °C (Media) -25 °C...+ 80 °C (Electronics) -40 °C...+100 °C (Storage)
<b>Power supply:</b>	10...30 V DC SELV/PELV 13...30 V DC SELV/PELV at 0...10 V
<b>Output signals: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

# Temperature

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### Dimensions (mm / inch)



### Electrical Connection

Connection	Current output 4-20 mA (2-wire)		Voltage output 0-10 V (3-wire)	
	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