

## Type UTS 2

**For temperature monitoring,  
with solid state output without digital display,  
accuracy class 0,5 % f. s.**

### Features

Set point without temperature default, adjustable with potentiometer, rugged and compact stainless steel construction, switching hysteresis factory set, high switching accuracy, protection class IP65 resp. IP67, high shock- and vibration stability.

### Measuring Ranges

0... +100 °C to -30...+150 °C

### Applications

OEM-applications in hydraulics and pneumatics, mobile hydraulics and engineering, air conditioning control



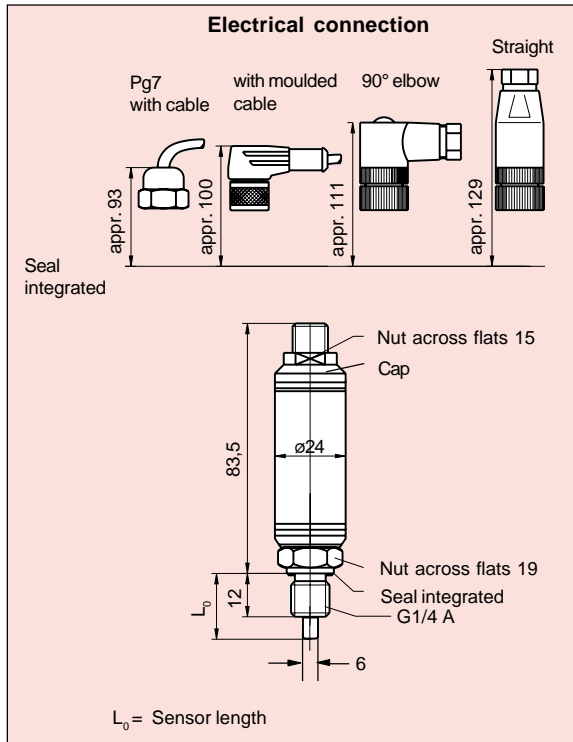
### Technical data

Sensor	: Pt 100 (Class B), DIN IEC 751
Materials	
Wetted Parts	: Stainless steel (UDS2) 1.4435
Housing (Electronics)	: Stainless steel W.-Nr. 1.4571
Seals	: Viton, EPDM
Protection class	: IP65 plug, IP67 cable
Process connection	: G 1/4 male, nut across flats 19 mm
Dimensions	: ø 24 mm x 86 mm (without electrical plug)
Weight	: 150 g
Measuring ranges	: -30 °C...+100 °C, -30 °C...+150 °C 0 °C...+100 °C, 0 °C...+150 °C
Linearity error	: <math>\pm 0,5\%</math> f. s.
Time constant	: appr. 40 s
Electrical connection	: PG7 incl. 1,5 m cable plug M 12 x 1; 5-pin
Sensor length	: 17 mm (Standard) 25, 50, 100, 150, 200, 250 mm
Sensor diameter	: 6 mm
Temperature influence	: <math>\pm 0,1\%</math> f. s. /10 K

Compensation range	: -10 °C... +70 °C
Repeatability	: <math>\pm 0,1\%</math> 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 unregulated, max. 10 % residual ripple, reversed polarity protected
Display (Operation)	: LED green
Power consumption	: appr. 10 mA at $U_b=24$ V DC (without load)
Solid state output	
Adjustment range	: 5%... 125% f. s. 2000 mV = E.W. (plug pin 5)
Hysteresis	: 15% ( $\pm 2\%$ ) of set point factory set (on request 2%... 50% of set point)
Switching frequency	: max. 1 kHz
Switching output	
- external selectable	: pnp - open collector
- max. 500 mA	: short circuit-proof
Display	: LED red for activated set point
Accessories	: - Adaptor for set point adjustment, pluggable - conduit - electrical plugs

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## Dimensions (in mm)



## Electrical connection

Plug M 12 x 1 5-pin	PG7 w. cable LifYY11Y 5x0,25 mm <sup>2</sup>	pnp NO/NC	Set point adjustment P <sub>nenn</sub> = 2000 mV
Pin 1	brown	+Ub 10...30 V DC 1	+Ub 10...30 V DC 1
Pin 2	white	bridge 2	2
Pin 3	blue	0 V 3	0 V 3
Pin 4	black	R <sub>L</sub> 4	R <sub>L</sub> > 100kΩ 4
Pin 5	grey	5	5

### Order number example

Type	Series	Process seal	Temperature meas.-range	Output signal Switching output	Electrical connection	Sensor length
UTS 2	64-02	1	03	1	3	01

### Your order number

UTS 2	64-02					
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Process seal	Temp.-meas.-ranges	Output signal	Electrical connection	Sensor length
(1) Viton - Standard e. g. hydraulic oil, Tmax = 230 °C	(02) -30... +100°C (04) -30... +150°C (08) 0... +100°C (10) 0... +150°C	(1) solid state output pnp- (NO)	(1) Cable gland PG 9 incl. 1,5 m silicone cable	(from sealing edge)
(3) EPDM - e. g. brake fluid, Tmax = 150 °C	(00) Special ranges	(2) solid state output pnp- (NC)	(2) Plug 4-pin, M12 x 1  (0) Special connection	(01) 17 mm (standard)
				(02) 25 mm (03) 50 mm (04) 100 mm (05) 150 mm (06) 200 mm (07) 250 mm (00) Special length

### Accessories

Order number	Description
0499-003	Adaptor for set point adjustment, pluggable (only for electrical connection code 2)



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