

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



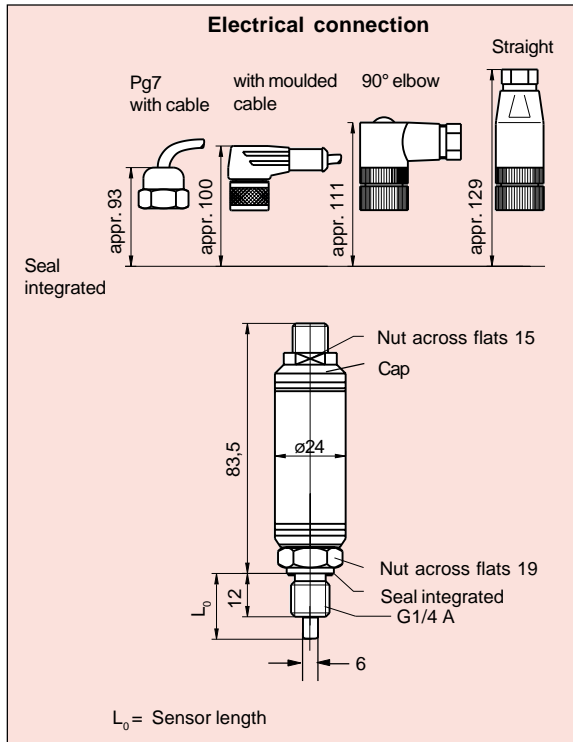
Technical data

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	: $\pm 0,5\%$ 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	: $\pm 0,1\%$ f. s. /10 K

Compensation range	: -10 °C... +70 °C
Repeatability	: $\pm 0,1\%$ 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 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

Type UTS 2

Dimensions (in mm)



Electrical connection

Plug M 12 x 1 5-pin	PG7 w. cable LifYY11Y 5x0,25 mm ²	pnp NO/NC	Set point adjustment P _{nenn} = 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 _L 4	R _L > 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					
-------	-------	--	--	--	--	--

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)

05 / 03 KTE-ENG 03/1

Barksdale Electronic Temperature Transducers / Switches

Specifications are subject to changes without notice.