

Engelmann Temperature Sensors

UTS Universal Temperature Sensor Pairs



- Approvals: MID heat; national German cooling
- Silicon pipes
- Lengths: 3 m and 10 m using two-wire technology
- Diameters: 5 mm, 5,2 mm and 6 mm
- Clamping sleeves for a variety of temperature pocket lengths:
 - UTS 5 mm: 80 mm, 150 mm
 - UTS 6 mm: 85 mm, 100 mm, 120 mm, 150 mm, 210 mm

Technical Data:

Temperature sensors

Type		Platinum precision resistor temperature probes according to DIN EN 60751		
Diameters	mm	5	5,2	6
Nominal length	mm	45	45	60
Nominal value		Pt 500		
Cable length	m	3; 10 using two-wire technology		
Maximum pressure	PN	25		
Largest effective value of sensor current	mA	0,797		
Maximum electrical measurement power	mW	0,3 (average value for pulsed measurement currents)		
Installation		direct-mounted; temperature pockets, in conformity with DIN EN 1434		
Minimum inversion depth (direct-mounted)	mm	15		
Max. flow speed for 210 mm temperature pockets (for UTS 6 mm)	m/s	2,2		
Response time (direct-mounted)		$\tau_{0,5} \leq 3,5 \text{ s}$	$\tau_{0,5} \leq 3,5 \text{ s}$	$\tau_{0,5} \leq 5,0 \text{ s}$
Response time (installation in temperature pockets)		$\tau_{0,5} \leq 7,0 \text{ s}$	$\tau_{0,5} \leq 7,0 \text{ s}$	$\tau_{0,5} \leq 5,0 \text{ s}$
Measurement stability	years	10		
Mechanical class		M3		
Protection class		IP65		
Temperature range medium heat	°C	0 – 150		
Ambient temperature	°C	5 – 55		
Temperature difference range $\Delta\theta$ heat	K	3 – 150		
Temperature range medium cooling	°C	0 – 150		
Temperature difference range $\Delta\theta$ cooling	K	-3 – -150		

Weight

Weight (3 m length)	kg	0,20
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