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 thermowell 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 resistance thermometers according to DIN EN 60751		
Diameters	mm	5	5.2	6
Installation length	mm	45	45	60
Nominal value		Pt 500		
Connection cable length	m	3, 10 using two-wire technology		
Maximum pressure	PN	25		
Maximum RMS value of the sensor current	mA	0.797		
Maximum electrical measurement performance	mW	0.3 (for pulsed measuring current, the time average applies)		
Installation type		direct immersion; thermowells, compliant with DIN EN 1434		
Minimum inversion depth (direct immersion)	mm	15		
Maximum flow speed for 210 mm thermowells (for UTS 6 mm)	m/s	2.2		
Response time (direct-mounted)		$\tau_{0,5} \leq 3.5$ s	$\tau_{0,5} \leq 3.5$ s	$\tau_{0,5} \leq 5.0$ s
Response time (installation in thermowell)		$\tau_{0,5} \leq 7.0$ s	$\tau_{0,5} \leq 7.0$ s	$\tau_{0,5} \leq 5.0$ s
Measurement stability	years	10		
Mechanical class		M3		
Protection class		IP65		
Temperature range medium heat	°C	0 – 150		
Temperature range medium cooling	°C	0 – 150		
Ambient temperature	°C	5 – 55		
Temperature difference range $\Delta\Theta$ heat	K	3 – 150		
Temperature difference range $\Delta\Theta$ cooling	K	-3 – -150		

Weight

Weight (3 m length)	kg	0.2