

Specifications

EXTERNAL TEMPERATURE SENSOR TSUB21

1 SENSOR SPECIFICATIONS

Specifications are valid for the submersible temperature sensor TSUB21 with different cable lengths: 2m cable (item no.: **TSUB21**), 1m cable (item no.: **TSUB21-CL1**) and 5m cable (item no.: **TSUB21-CL5**). For precise absolute temperature readings, an optional **1-point calibration of the Pt100 temperature sensor** is recommended.

1.1 Specifications

Specifications	
Measuring Range	-30-150°C (note: optical sensors have a different temperature range)
Accuracy	±0.5°C
Resolution	0.02°C

1.2 General Characteristics

Sensor type	4-wire Pt100 with LEMO-connector
Response time (t90) in water	ca. 8 s
Response time (t90) in gas	1 min
Tip Diameter	2.1 mm
Sensitive tip length	First ca. 5 mm

Cable type	Teflon-coated
Cable length	1, 2 or 5 m
Cleaning	De-ionized water
Application Areas	Laboratory, industry, research. NOT for medical or any safety-critical application. NOT for application in humans. NOT for application in food intended for human consumption.

2 TYPICAL APPLICATIONS

Application	Recommended Pt100 temperature sensor
Gas / air	TDIP15
Fresh water / aqueous solutions	TSUB21 / TDIP15*
Sea water / corrosive media	TSUB21
Long-term applications in wet environments	TSUB21
Approved organic solvents**	TSUB21
Areas with very strong electromagnetic interference	TSUB21

* For fast measurements

With solvent-resistant oxygen sensor (OXSOVLV**)

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