

# Specifications

## EXTERNAL TEMPERATURE SENSOR TDIP15

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### 1 SENSOR SPECIFICATIONS

Specifications are valid for the dipping-probe temperature sensor TDIP15 (item no.: **TDIP15**). 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. 2 s
Response time (t90) in gas	1 min
Tip Diameter	1.5 mm
Total tip length	100 mm
Sensitive tip length	First 18 mm
Cable type	Shielded, ensuring low noise

<b>Cable length</b>	2 m
<b>Cleaning</b>	De-ionized water
<b>Application Areas</b>	Laboratory, industry, research. <b>NOT</b> for medical or any safety-critical application. <b>NOT</b> for application in humans. <b>NOT</b> 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 devices purchased after 2016) TSUB36 (only for devices purchased before 2016)

\* For fast measurements

\*\*With solvent-resistant oxygen sensor (**OXSOVLV**)

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