



SCS Directory

Accreditation number: SCS 0125

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 04.07.2011
Current accreditation: 04.07.2021 to 03.07.2026
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 26.03.2024

Calibration laboratory for absolute humidity, relative humidity and temperature

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ^{1) 2)}	Remarks
Frost / dew point				
Dew point mirror,	- 90 °C ... <- 75 °C	Permanent laboratory	0,78 K	Comparison with a condensation hygrometer
Dew point transmitter,	- 75 °C ... <- 60 °C		0,29 K	
Dew point hygrometer	- 60 °C ... <- 20 °C		0,14 K	
	- 20 °C ... <+ 60 °C		0,14 K	
	+ 60 °C ... + 95 °C		0,11 K	
	- 60 °C ... <- 20 °C	On-site calibration	0,18 K	
	- 20 °C ... + 60 °C		0,18 K	
	>+ 60 °C ... + 95 °C		0,15 K	

¹⁾ The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor $k = 2$, which corresponds to a confidence level of about 95% for a normal distribution.

²⁾ Where the uncertainty is expressed as a range, this corresponds to a linear function.



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ^{1) 2)}	Remarks
Temperature				
Resistance thermometer	- 100 °C ... + 130 °C	Permanent laboratory	0,045 K	In a liquid bath
	- 50 °C ... + 100 °C	On-site calibration	0,14 K	Comparison with a PRT
Electrical quantities				
Temperature indicator with resistance input	1 Ω ... 150 Ω	Permanent laboratory	0,40 m Ω ... 1,2 m Ω	With fixed resistors
	150 Ω ... 350 Ω		1,2 m Ω ... 3,2 m Ω	
	Conversion Pt 100			
	- 200 °C ... + 130 °C		0.90 mK ... 3,2 mK	
	+ 130 °C ... + 715 °C		3,2 mK ... 11 mK	

In case of contradictions in the language versions of the directories, the German version shall apply.

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²⁾ Where the uncertainty is expressed as a range, this corresponds to a linear function.