



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 04.07.2021

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, Dew point transmitter, Dew point hygrometer	- 90 °C ... - 80 °C	Permanent laboratory	0,40 K ... 0,20 K	Primary realization
	- 80 °C ... - 60 °C		0,20 K ... 0,050 K	
	- 60 °C ... - 5 °C		0,050 K	
	- 20 °C ... + 70 °C		0,030 K	
	>+ 70 °C ... + 90 °C		0,040 K	
	>+ 90 °C ... + 95 °C		0,045 K	
Frost / dew point Dew point mirror, Dew point transmitter, Dew point hygrometer	- 90 °C ... - 85 °C	Permanent laboratory	0,52 K ... 0,32 K	Comparison with a condensation hygrometer
	- 85 °C ... - 75 °C		0,32 K ... 0,12 K	
	- 75 °C ... - 60 °C		0,12 K ... 0,070 K	
	- 60 °C ... <- 20 °C		0,070 K	
	- 20 °C ... + 60 °C		0,050 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
Relative Humidity Dew point mirror, Dew point hygrometer	>+ 60 °C ... + 95 °C	On-site calibration	0,070 K	Comparison with a condensation hygrometer
	- 60 °C ... <- 20 °C		0,10 K	
	- 20 °C ... + 60 °C		0,080 K	
	>+ 60 °C ... + 95 °C		0,10 K	
	Chamber temperature 0 °C ... + 100 °C	Permanent laboratory and on-site calibration	0,10 %rh	Comparison with a condensation hygrometer and a PRT
	0,50 %rh ... 10 %rh			
Chamber temperature 0 °C ... + 15 °C				
10 %rh ... 98 %rh	0,10 %rh ... 0,65 %rh	Best measurement capability expressed as absolute uncertainty		
Chamber temperature >+ 15 °C ... + 100 °C				
Temperature Resistance thermometer	10 %rh ... 98 %rh	0,10 %rh ... 0,55 %rh		
	- 100 °C ... + 180 °C	Permanent laboratory	0,01 K	In a liquid bath
Temperature indicator with resistance input	- 50 °C ... + 100 °C	On-site calibration	0,03 K	Comparison with a PRT
	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	
	Converted to IEC 60751	Permanent laboratory	1,1 mK ... 3,2 mK	3,2 mK ... 10,7 mK
	- 200 °C ... + 130 °C			
	+ 130 °C ... + 715 °C			
Converted to ITS 90, Pt100				
- 200 °C ... + 130 °C	0,30 mK ... 3,0 mK	3,0 mK ... 10,3 mK		
+ 130 °C ... + 715 °C				

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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ^{1) 2)}	Remarks
DC Resistance / Resistors	Converted to ITS 90, Pt25			
	- 200 °C ... + 606 °C		0,50 mK ... 7,40 mK	
	1 Ω ... 25 Ω		0,030 m Ω ... 0,055 m Ω	In air at temperature from 0 °C to 60 °C
	25 Ω ... 100 Ω		0,055 m Ω ... 0,25 m Ω	
	100 Ω ... 200 Ω		0,25 m Ω ... 0,71 m Ω	
200 Ω ... 400 Ω		0,71 m Ω ... 2,5 m Ω		

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.