



## SCS Directory

Accreditation number: SCS 0125

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

Process Insights Swiss AG  
Seminarstrasse 55/57  
5430 Wettingen

Head: Dr Nenad Krstic  
Responsible for MS: Dr Thomas Pimpl  
Telephone: +41 56 552 18 00  
E-Mail: [sales@emea.process-insights.com](mailto:sales@emea.process-insights.com)  
Internet: <http://www.process-insights.com>  
Initial accreditation: 04.07.2011  
Current accreditation: 04.07.2021 to 03.07.2026  
Scope of accreditation see: [www.sas.admin.ch](http://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 $\pm$ <sup>1) 2)</sup>	Remarks
<b>Frost / dew point</b> 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	
<b>Frost / dew point</b> 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	

<sup>1)</sup> 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.

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



## SCS Directory

Accreditation number: SCS 0125

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ <sup>1) 2)</sup>	Remarks
<b>Relative Humidity</b> 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		Comparison with a condensation hygrometer and a PRT
	0,50 %rh ... 10 %rh		0,10 %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				
10 %rh ... 98 %rh		0,10 %rh ... 0,55 %rh		
<b>Temperature</b> Resistance thermometer	- 100 °C ... + 180 °C	Permanent laboratory	0,01 K	In a liquid bath
	- 50 °C ... + 100 °C	On-site calibration	0,03 K	Comparison with a PRT
Temperature indicator with resistance input	1 $\Omega$ ... 150 $\Omega$	Permanent laboratory	0,40 m $\Omega$ ... 1,2 m $\Omega$	With fixed resistors
	150 $\Omega$ ... 350 $\Omega$		1,2 m $\Omega$ ... 3,2 m $\Omega$	
	Converted to IEC 60751			
	- 200 °C ... + 130 °C		1,1 mK ... 3,2 mK	
	+ 130 °C ... + 715 °C		3,2 mK ... 10,7 mK	
	Converted to ITS 90, Pt100			
- 200 °C ... + 130 °C		0,30 mK ... 3,0 mK		
+ 130 °C ... + 715 °C		3,0 mK ... 10,3 mK		

<sup>1)</sup> 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.

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



**SCS Directory**

**Accreditation number: SCS 0125**

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

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

\* / \* / \* / \* / \*

<sup>1)</sup> 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.  
<sup>2)</sup> Where the uncertainty is expressed as a range, this corresponds to a linear function.