Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER

State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

SCS Directory

Accreditation number: SCS 0034

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

SWiCAL swiss calibration GmbH
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Internet:	www.swical.ch
Initial accreditation:	02.04.1991
Current accreditation:	05.10.2022 to 04.10.2027
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 05.10.2022

Calibration laboratory for pressure, temperature and humidity

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty ± 1)	Remarks
Absolute pressure				
Calibration of pressure measuring instruments: Pressure	1 mbar ... 3450 mbar		0,5 mbar	
Sensor, pressure transmitter, logger, measuring system, barometer	1 mbar ... 1400 mbar		0,25 mbar	
Mechanical, electrical, electronic, direct-reading, with output signal				

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.

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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty ± 1)	Remarks
Overpressure				
Calibration of pressure measuring instruments: Pressure	1 bar ... 2500 bar		0,03 %	
Sensor, pressure transmitter, logger, measuring system				
Mechanical, electrical, electronic, direct-reading, with output signal				
Overpressure				
Calibration of deadweight testers	1 bar ... 700 bar		0,03 %	
Temperature				
Calibration of temperature measuring instruments of all kinds:				
Mechanical	-20 °C ... < 40 °C	In air, in climate chamber	1,4 °C	Comparison with reference platinum resistance thermometer
Electrical				
Electronic				
Direct-reading	40 °C ... < 100 °C		1,4 °C	
With output signal				
Logger				
Temperature measuring system				
Temperature				
Calibration of temperature measuring instruments of all kinds:				
Mechanical	-80 °C ... 20 °C	In calibration baths	0,05 °C	Comparison with standard platinum resistance thermometer (SPRT)
Electrical				
Electronic	4 °C ... 85 °C		0,05 °C	
Direct-reading	80 °C ... 160 °C		0,09 °C	
With output signal	160 °C ... 250 °C		0,10 °C	

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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty ± 1)	Remarks
Logger				
Temperature measuring system				
Relative Humidity				
Calibration of humidity				
Measuring instruments of all kinds:		Ambient temperature:		
Mechanical				Comparison with dew point mirror
Electrical	15 % RH ... < 30 % RH	35 °C ... 75 °C	1,1 % RH	
Electronic	30 % RH ... < 50 % RH	23 °C ... 65 °C	1,7 % RH	
Direct-reading	50 % RH ... < 70 % RH	15 °C ... 55 °C	2,5 % RH	In climate chamber
With output signal	70 % RH ... 90 % RH	10 °C ... 50 °C	3,2 % RH	
Logger				
Humidity measuring system				

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

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