



SCS Directory

Accreditation number: SCS 0065

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

ROTRONIC AG
Calibration laboratory
Grindelstrasse 6
8303 Bassersdorf

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Responsible for MS: Alexander Brunner
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Internet: www.rotronic.ch
Initial accreditation: 27.04.1995
Current accreditation: 31.10.2024 to 30.10.2029
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Site under the accreditation:

Einsteinstrasse 17 - 23
D-76275 Ettlingen

Scope of accreditation as of 31.10.2024

Calibration laboratory for temperature and relative humidity (rh)

Calibration and Measurement Capability (CMC)

Calibration and measurement capabilities below carried out at the headquarters and office, in the laboratory at ambient temperature: 21 °C ... 25 °C

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
TEMPERATURE	-10 °C ... < 0 °C		0,25 °C	In climatic chamber
	0 °C ... < 35 °C		0,15 °C	In climatic chamber
	35 °C ... < 50 °C		0,20 °C	In climatic chamber
	50 °C ... 70 °C		0,25 °C	In climatic chamber
	21 °C ... 25 °C		0,1 °C	In humidity generator
Resistive temperature device PT100	-25 °C ... 125 °C		0,03 °C	In temperature bath
Digital probe	-25 °C ... 125 °C		0,04 °C	In temperature bath



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
RELATIVE HUMIDITY	0,5 % rh ... < 20 % rh	21 °C ... 25 °C	0,2 % rh	In humidity generator
	20 % rh ... < 40 % rh	21 °C ... 25 °C	0,3 % rh	In humidity generator
	40 % rh ... < 65 % rh	21 °C ... 25 °C	0,4 % rh	In humidity generator
	65 % rh ... < 85 % rh	21 °C ... 25 °C	0,5 % rh	In humidity generator
	85 % rh ... 99 % rh	21 °C ... 25 °C	0,6 % rh	In humidity generator
	10 % rh ... < 20 % rh	-10 °C ... < 0 °C	0,6 % rh	In climatic chamber
	20 % rh ... < 40 % rh	-10 °C ... < 0 °C	0,9 % rh	In climatic chamber
	40 % rh ... < 65 % rh	-10 °C ... < 0 °C	1,5 % rh	In climatic chamber
	65 % rh ... 95 % rh	-10 °C ... < 0 °C	2,1 % rh	In climatic chamber
	10 % rh ... < 20 % rh	0 °C ... < 10 °C	0,5 % rh	In climatic chamber
	20 % rh ... < 40 % rh	0 °C ... < 10 °C	0,6 % rh	In climatic chamber
	40 % rh ... < 65 % rh	0 °C ... < 10 °C	0,9 % rh	In climatic chamber
	65 % rh ... 95 % rh	0 °C ... < 10 °C	1,2 % rh	In climatic chamber
	10 % rh ... < 20 % rh	10 °C ... < 35 °C	0,4 % rh	In climatic chamber
	20 % rh ... < 40 % rh	10 °C ... < 35 °C	0,5 % rh	In climatic chamber
	40 % rh ... < 65 % rh	10 °C ... < 35 °C	0,7 % rh	In climatic chamber
	65 % rh ... 95 % rh	10 °C ... < 35 °C	0,9 % rh	In climatic chamber
	10 % rh ... < 20 % rh	35 °C ... < 50 °C	0,5 % rh	In climatic chamber
	20 % rh ... < 40 % rh	35 °C ... < 50 °C	0,6 % rh	In climatic chamber
	40 % rh ... < 65 % rh	35 °C ... < 50 °C	0,8 % rh	In climatic chamber
	65 % rh ... 95 % rh	35 °C ... < 50 °C	1,0 % rh	In climatic chamber
	10 % rh ... < 20 % rh	50 °C ... 70 °C	0,5 % rh	In climatic chamber
	20 % rh ... < 40 % rh	50 °C ... 70 °C	0,6 % rh	In climatic chamber
40 % rh ... < 65 % rh	50 °C ... 70 °C	1,0 % rh	In climatic chamber	
65 % rh ... 95 % rh	50 °C ... 70 °C	1,6 % rh	In climatic chamber	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
HUMIDITY STANDARDS OF OUR OWN PRODUCTION	0,15 % rh ... < 25 % rh	21 °C ... 25 °C	0,3 % rh	Site Switzerland
	25 % rh ... < 40 % rh	21 °C ... 25 °C	0,4 % rh	Site Switzerland
	40 % rh ... < 70 % rh	21 °C ... 25 °C	0,6 % rh	Site Switzerland
	70 % rh ... < 85 % rh	21 °C ... 25 °C	0,7 % rh	Site Switzerland
	85 % rh ... < 99 % rh	21 °C ... 25 °C	0,8 % rh	Site Switzerland

The calibration and measurement capabilities below are carried out on site, at the headquarters and in the office. In the laboratory and at the customer's premises at ambient temperature: 15 °C ...30°C.

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Relative humidity and Temperature	10 % rh ... 90 % rh	10 °C ... 40 °C	1,3 % rh 0,3 °C	In temperature and humidity generator
TEMPERATURE	-90 °C ... < 0 °C		0,4 °C	In dry block calibrator
	0 °C ... 125 °C		0,25 °C	In dry block calibrator

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

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