

Date

Reference

2021-03-26

2019/2871

Scope of accreditation

Calibration laboratory according to SS-EN ISO/IEC 17025:2018

Pentronic AB

Karlstad

Accreditation number

0076

Karlstad

A000508-002

Temperature

<i>Technology area</i>	<i>Parameter</i>	<i>Method</i>	<i>Material</i>	<i>Measure</i>	<i>Best measuring ability (CMC) +/-</i>	<i>Technique</i>	<i>Field</i>
Temperature	Contact	Inhouse method; 2.60 Utg 1.7	Resistanstermometer	250 – 425 °C	0,25 °C		No
	Contact	Inhouse method; 2.60 Utg 1.7	Resistanstermometer	-80 – 250 °C	0,02 °C		No
	Contact	Inhouse method; 3.60 Utg 1.9	Thermocouple	1100 – 1200 °C	1 °C		No
	Contact	Inhouse method; 3.60 Utg 1.9	Thermocouple	250 – 425 °C	0,4 °C		No
	Contact	Inhouse method; 3.60 Utg 1.9	Thermocouple	425 – 700 °C	0,5 °C		No
	Contact	Inhouse method; 3.60 Utg 1.9	Thermocouple	700 – 1100 °C	0,7 °C		No
	Contact	Inhouse method; 3.60 Utg 1.9	Thermocouple	-80 – 250 °C	0,1 °C		No
	Contact	Inhouse method; 5.11 utg 1.0	Temperature sensors	-200 – 850 °C	0,015 °C		No
	Contact	Inhouse method; 5.60 Utg 1.8	Temperature sensors	1100 – 1200 °C	1 °C		No
	Contact	Inhouse method; 5.60 Utg 1.8	Temperature sensors	250 – 425 °C	0,25 °C		No
	Contact	Inhouse method; 5.60 Utg 1.8	Temperature sensors	425 – 700 °C	0,5 °C		No

Appendix 1

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Technology area	Parameter	Method	Material	Measure	Best measuring ability (CMC) +/-	Technique	Field
Temperature	Contact	Inhouse method; 5.60 Utg 1.8	Temperature sensors	700 – 1100 °C	0,7 °C		No
	Contact	Inhouse method; 5.60 Utg 1.8	Temperature sensors	-80 – 250 °C	0,02 °C		No
	Contact	Inhouse method; 6.20 Utg 1.5	Temperature sensors	200 – 650 °C	0,2 °C		No
	Contact	Inhouse method; 6.20 Utg 1.5	Temperature sensors	650 – 1100 °C	1 °C		No
	Contact	Inhouse method; 6.20 Utg 1.5	Temperature sensors	-80 – 200 °C	0,1 °C		No
	Contact	Inhouse method; 7.10 Utg 1.1	Temperature sensors	-200 – 1750 °C	0,1 °C		Yes
	Contact	Inhouse method; 7.40 Utg 1.0	Temperature sensors	400 – 650 °C	0,2 °C		Yes
	Contact	Inhouse method; 7.40 Utg 1.0	Temperature sensors	650 – 1200 °C	1 °C		Yes
	Contact	Inhouse method; 7.40 Utg 1.0	Temperature sensors	-80 – 400 °C	0,1 °C		Yes
	Contact	Inhouse method; 7.60 Utg 1.0	Temperature sensors	400 – 650 °C	0,2 °C		Yes
	Contact	Inhouse method; 7.60 Utg 1.0	Temperature sensors	650 – 1200 °C	1 °C		Yes
	Contact	Inhouse method; 7.60 Utg 1.0	Temperature sensors	-80 – 400 °C	0,1 °C		Yes
	Non-contact thermometry	Inhouse method; 7.80 Utg 1.1	Temperature sensors	-10 – 550 °C	5 °C		Yes
	Resistance	Intern method; 2.85 utg 1.0	Temperature sensors	-200 - 850 °C	0,015 °C		No
	Contact	Intern method; 3.84 utg 1.2	Temperature sensors	-200 - 1750 °C	0,1 °C		No

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<i>Technology area</i>	<i>Parameter</i>	<i>Method</i>	<i>Material</i>	<i>Measure</i>	<i>Best measuring ability (CMC) +/-</i>	<i>Technique</i>	<i>Field</i>
Temperature	Contact	Intern metod; 5.21 utg 1.4	Temperature sensors	-200 – 1750 °C	0,07 °C		No

Calibration and measurement capability, CMC, is the smallest uncertainty the calibration laboratory can provide, expressed as the expanded uncertainty having a coverage probability of approximately 95%.