

Appendix 1

Date

Reference

2022-08-12

2022/979

Scope of accreditation

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

Intertek Semko AB

Västerås

Accreditation number

1003

A000426-003

Electricity and Magnetism

<i>Technology area</i>	<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Measure</i>	<i>Best measuring ability (CMC) +/-</i>	<i>Technique</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>
Current	Inhouse method; ACK 0008 (ACK 0001)	AC	Current showing	220 μ A – 20,5 A	145 ppm – 1124 ppm	Generera växelström med kalibrator	Yes	2	No
		DC	Current showing	220 μ A – 20,5 A	52 ppm – 804 ppm	Generera likström med kalibrator	Yes	2	No
	Intern metod; ACK 0009	AC	Strömgenererande	220 μ A – 20 A	490 ppm – 1020 ppm	Mätning av växelström med multimeter	Yes	2	No
		DC	Strömgenererande	220 μ A – 20 A	16 ppm – 440 ppm	Mätning av likström med multimeter	Yes	2	No
Resistance	Inhouse method; ACK 0010 (ACK 0001)		Resistance showing	1 m Ω – 10 M Ω	6 ppm – 164 ppm	Generera resistans med resistansstandard	Yes	2	No
			Resistance showing	1 Ω – 1000 M Ω	8,5 ppm – 12016 ppm	Generera resistans med kalibrator	Yes	2	No
	Inhouse method; ACK 0011		Resistansgenererande	2 Ω – 2 G Ω	8,5 ppm – 2510 ppm	Mätning av resistans med multimeter	Yes	2	No
Voltage	Inhouse method; ACK 0006 (ACK 0001)	AC	Voltage showing	2,2 mV – 1100 V	53 ppm – 4085 ppm	Generera växelspanning med kalibrator	Yes	2	No

Electricity and Magnetism

<i>Technology area</i>	<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Measure</i>	<i>Best measuring ability (CMC) +/-</i>	<i>Technique</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>
Voltage	Inhouse method; ACK 0006 (ACK 0001)	DC	Voltage showing	2,2 mV – 1100 V	3,9 ppm – 11,5 ppm	Generera likspänning med kalibrator	Yes	2	No
	Intern metod; ACK 0007	AC	Spänningsgenererande	200 mV – 1000 V	95 ppm – 135 ppm	Mätning av växelspänning med multimeter	Yes	2	No
		DC	Spänningsgenererande	200 mV – 1000 V	3,9 ppm – 6 ppm	Mätning av likspänning med multimeter	Yes	2	No

Mass related quantities

<i>Technology area</i>	<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Measure</i>	<i>Best measuring ability (CMC) +/-</i>	<i>Technique</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>
Torque	Intern metod; ACK 0040		Torque wrench	0,1 – 0,25 Nm	1,3 %	Comparison with torque sensors	Yes	2	No
			Torque wrench	0,25 - 3000 Nm	1,0 %	Comparison with torque sensors	Yes	2	No

Temperature

<i>Technology area</i>	<i>Method</i>	<i>Parameter</i>	<i>Material</i>	<i>Measure</i>	<i>Best measuring ability (CMC) +/-</i>	<i>Technique</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>
Resistance	Intern metod; ACK 0003	Resistive temperature sensors	Temperature gauge	-200 °C - 800 °C	0,05 °C		Yes	2	No
Temperature	Inhouse method; ACK 0004 (ACK 0001)	Generation of resistance	Temperature sensors	-200 °C – 800 °C	0,06 °C	Temperature simulated with calibrator	Yes	2	No
		Generation of voltage	Temperature sensors	-200 °C – 1372 °C	0,2 °C	Temperature simulated with calibrator	Yes	2	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%.

The accreditation also applies to the corresponding version of the international EN and ISO standards.

The scope of accreditation is flexible as specified in this decision. The accredited body must always retain a current list of the scope for which it is accredited.

Type of flexible scope

1: - Introduce new version of standard method and make editorial changes to non-standard method

2: - Introduce new version of standard method and make editorial changes to non-standard method - Introduce new version and modifications of non-standard method. The procedure must be equivalent