The Dutch Accreditation Council RvA, by law appointed as the national accreditation body for The Netherlands, hereby declares that accreditation has been granted to:

TRESCAL Hengelo B.V. Calibration Laboratory Hengelo

The organisation has demonstrated to be able to generate technical valid results in a competent way and work according to a management system.

This accreditation is based on an assessment against the requirements as laid down in EN ISO/IEC 17025:2017.

The accreditation covers the activities as specified in the authorized annex bearing the registration number.

The accreditation is valid provided that the organisation continues to meet the requirements.

The accreditation with registration number:

K 018

is granted on 15 September 1980

This declaration is valid until

1 December 2028

The board of the Dutch Accreditation Council, on its behalf.

mr./J.A.W.M. de Haas

Normative document: EN ISO/IEC 17025:2017

Registration number: **K 018**

of TRESCAL Hengelo B.V. Calibration Laboratory

This annex is valid from: **24-04-2025** to **01-12-2028** Replaces annex dated: **02-10-2024**

HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
MW 1 0	MASS AND WEIGHT				HLO, OS
MW 1 2	Weighing instruments	1 mg – 33 kg	2.5·10 ⁻⁵ · <i>m</i> + last digit + h/2	h = Repeatability	
		1 mg – 2500 kg	6·10 ⁻⁵ · <i>m</i> + last digit + h/2	h = Repeatability	

HCS code	Measured quantity, Instrument, Measure	Frequency	CMC ¹	Remarks	Location
LF 0 0	DC/LF ELECTRICITY				
LF 1 0	Direct voltage				HLO, OS
	0 mV – 200 mV		1.0 ·10 ⁻⁵ · <i>U</i> , minimum 0.15 μV	Measuring	
	0.2 V – 2 V		7·10 ⁻⁶ · <i>U</i>	Measuring	
	2 V – 20 V		5·10 ⁻⁶ · <i>U</i>	Measuring	
	20 V – 200 V		7·10 ⁻⁶ · <i>U</i>	Measuring	
	200 V – 1000 V		8·10 ⁻⁶ · <i>U</i>	Measuring	
	0 mV – 220 mV		2.0·10 ⁻⁵ · <i>U</i> , minimum 1.5 μV	Generate	
	0.22 V – 2.2 V		7·10 ⁻⁶ · <i>U</i>	Generate	
	2.2 V – 22 V		1.0·10 ⁻⁵ · <i>U</i>	Generate	
	22 V – 220 V		1.5·10 ⁻⁵ · <i>U</i>	Generate	
	220 V – 1100 V		1.0·10 ⁻⁵ · <i>U</i>	Generate	

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HCS code	Measured quantity, Instrument, Measure	Frequency	CMC ¹	Remarks	Location
LF 2 0	Direct current				HLO, OS
	1 μΑ – 200 μΑ		1·10 ⁻⁴ · <i>I</i> , minimum 0.5 nA	Measuring	
	200 μA – 20 mA		3·10-5·/	Measuring	
	20 mA – 200 mA		7·10 ⁻⁵ · <i>I</i>	Measuring	
	0.2 A – 2 A		2.5·10 ⁻⁴ ·/	Measuring	
	2 A – 20 A		6·10 ⁻⁴ ·/	Measuring	
	0 μA – 220 mA		1.0·10 ⁻⁴ · <i>I</i> , minimum 0.5 nA	Generate compliance < 0,5 V	
	0.22 A – 2.2 A		1.10-4.1	Generate compliance < 0,5 V	
	2.2 A – 20 A		2.0·10 ⁻⁴ ·/	Generate compliance < 0,5 V	
	20 A – 1000 A		5·10 ⁻³ · <i>I</i>	Generate, with coils	
LF 3 0	Alternating voltage				HLO, OS
	10 mV – 200 mV	20 Hz – 20 kHz	1.4·10 ⁻³ · <i>U</i>	Measuring	
	10 mV – 200 mV	20 kHz – 100 kHz	4 ·10 ⁻³ · <i>U</i>	Measuring	
	0.2 V – 2 V	20 Hz – 10 kHz	2.0·10 ⁻⁴ · <i>U</i>	Measuring	
	0.2 V – 2 V	10 kHz – 100 kHz	1.0·10 ⁻³ · <i>U</i>	Measuring	
	2 V – 20 V	20 Hz – 10 kHz	1.6·10 ⁻⁴ · <i>U</i>	Measuring	
	2 V – 20 V	10 kHz – 100 kHz	1· 10 ⁻³ · <i>U</i>	Measuring	
	20 V – 200 V	20 Hz – 10 kHz	1.6·10 ⁻⁴ · <i>U</i>	Measuring	
	20 V – 200 V	10 kHz – 100 kHz	1· 10 ⁻³ · <i>U</i>	Measuring	
	200 V – 1000 V	55 Hz – 10 kHz	2.0·10 ⁻⁴ · <i>U</i>	Measuring	
	200 V – 1000 V	10 kHz – 30 kHz	1.0·10 ⁻³ · <i>U</i>	Measuring	
	1 kV – 100 kV	50 Hz	1.0·10 ⁻³ · <i>U</i>	Measuring	
	2.2 mV – 22 mV	40 Hz – 20 kHz	5·10 ⁻⁴ · <i>U</i>	Generate	
	22 mV – 220 V	40 Hz – 20 kHz	1.0·10 ⁻⁴ · <i>U</i>	Generate	

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40 Hz – 1 kHz ent 55 Hz – 1 kHz 40 Hz – 1 kHz	1.0·10 ⁻⁴ · <i>U</i> 4·10 ⁻³ · <i>I</i> 6·10 ⁻⁴ · <i>I</i> 1.0·10 ⁻³ · <i>I</i> 1.3·10 ⁻³ · <i>I</i>	Generate Measuring Measuring Measuring	HLO, OS
55 Hz – 1 kHz 50 Hz	6·10 ⁻⁴ · <i>I</i> 1.0·10 ⁻³ · <i>I</i> 1.3·10 ⁻³ · <i>I</i>	Measuring Measuring	HLO, OS
55 Hz – 1 kHz 55 Hz – 1 kHz 55 Hz – 1 kHz 50 Hz	6·10 ⁻⁴ · <i>I</i> 1.0·10 ⁻³ · <i>I</i> 1.3·10 ⁻³ · <i>I</i>	Measuring Measuring	
55 Hz – 1 kHz 55 Hz – 1 kHz 50 Hz	1.0·10 ⁻³ · <i>I</i> 1.3·10 ⁻³ · <i>I</i>	Measuring	
55 Hz – 1 kHz 50 Hz	1.3·10 ⁻³ ·/		
50 Hz			1
		Measuring	
A 40 Hz – 1 kHz	6·10 ⁻⁴ · <i>I</i>	Measuring	
	2.0·10 ⁻⁴ ·/	Generate	
40 Hz – 1 kHz	3·10-4·/	Generate	
40 Hz – 440 Hz	1.0·10 ⁻³ ·/	Generate	
45 – 60 Hz	5·10 ⁻³ · <i>I</i>	Generate, with coils Calibration of clamps	HLO
60 – 440 Hz	7.5·10 ⁻³ · <i>I</i>	Generate, with coils Calibration of clamps	HLO
			HLO, OS
	3·10 ⁻⁴ ·R	Measuring	
	1.5·10 ⁻⁴ · <i>R</i>	Measuring	
	5·10 ⁻⁵ ·R	Measuring	
	3.0·10 ⁻⁵ ·R	Measuring	
	1.3·10 ⁻⁵ · <i>R</i>	Measuring	
	1.1·10 ⁻⁵ · <i>R</i>	Measuring	
	1.2·10 ⁻⁵ · <i>R</i>	Measuring	
	3.6·10 ⁻⁵ · <i>R</i>	Measuring	
Ω	2.8·10 ⁻⁴ ·R	Measuring	
	3.0·10 ⁻³ ·R	Measuring	
	Ω	1.5·10 ⁻⁴ · R 5·10 ⁻⁵ · R 3.0·10 ⁻⁵ · R 1.3·10 ⁻⁵ · R 1.1·10 ⁻⁵ · R 1.2·10 ⁻⁵ · R 3.6·10 ⁻⁵ · R 2.8·10 ⁻⁴ · R	1.5·10 ⁻⁴ · R Measuring 5·10 ⁻⁵ · R Measuring 3.0·10 ⁻⁵ · R Measuring 1.3·10 ⁻⁵ · R Measuring 1.1·10 ⁻⁵ · R Measuring 1.2·10 ⁻⁵ · R Measuring 3.6·10 ⁻⁵ · R Measuring 2.8·10 ⁻⁴ · R Measuring

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HCS code	Measured quantity, Instrument, Measure	Frequency	CMC ¹	Remarks	Location
LF 6 1	Resistance				HLO, OS
	0 Ω		70 μΩ	Generate	
	100 μΩ, 1 mΩ, 10 mΩ		1·10-4· <i>R</i>	Generate	
	100 mΩ		4·10 ⁻⁵ · <i>R</i>	Generate	
	1 Ω, 1.9 Ω		8·10 ⁻⁵ · <i>R</i>	Generate	
	10 Ω		2.5·10 ⁻⁵ · <i>R</i>	Generate	
	19 Ω , 100 Ω , 190 Ω , 1 kΩ, 1.9 kΩ, 10 kΩ , 19 kΩ, 100 kΩ, 190 kΩ		2.0·10 ⁻⁵ · <i>R</i>	Generate	
	1 ΜΩ, 1.9 ΜΩ		3·10 ⁻⁵ ·R	Generate	
	10 ΜΩ		4·10 ⁻⁵ ·R	Generate	
	19 ΜΩ, 100 ΜΩ		6·10 ⁻⁵ ·R	Generate	
LF 6 5	LF Capacity				HLO, OS
	2 nF, 10 nF, 20 nF, 200 nF	1 kHz	1.0·10 ⁻³ ·C	Generate only sine-shaped signals	

HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
PV 0 0	PRESSURE AND VACUUM				
PV 1 0	Gas pressure				
PV 1 1	Absolute pressure	(750 – 1150) hPa a	0.3 hPa	By comparison to a reference barometer	HLO
		(0.01 – 1.1) MPa a	0.3 hPa + 25·10 ⁻⁵ ·(p - 100 kPa)		
		(1.1 – 60.1) MPa a	1·10 ⁻³ ·(<i>p</i> - 0.1 MPa)	By comparison with digital pressure indicators	HLO, OS

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