



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 2024**

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

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

of **TRESCAL Hengelo B.V.**  
**Calibration Laboratory**

This annex is valid from: **21-01-2021** to **01-12-2024**

Replaces annex dated: **05-06-2020**

HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>1</sup>	Remarks	Location
DM 9 0	Angle measurement				HLO
	Angle gauge block	0° - 180°	2 arcsec		
	Cylindrical square	up to Ø300 mm, up to height 500 mm	0.9 µm + 2.1•10 <sup>-6</sup> •l + 0.02•A	A = measured squareness	
	Square	up to 500 mm leg length	0.7 µm + 2.2x10 <sup>-6</sup> •l + 0.02•A	A = measured squareness	
	Angle plate	90°	0.5 arcsec		
	Autocollimator	up to 12.5 mm/m	0.5 µm/m + 0.001•H + 0.7•R		
		up to 2600 arcsec	0.1 arcsec + 0.001•H + 0.7•R		
	Spirit level	up to 12.5 mm/m	0.5 µm/m + 0.001•H + 0.7•R		
		up to 2600 arcsec	0.1 arcsec + 0.001•H + 0.7•R		
DM 9 1	Angle measurement				HLO
	Leveling instruments		0.01 mm/m		
DM 9 2	Angle measurement				HLO
	Polygon	up to 360°	0.5 arcsec		
	Pentagon prism	90°	0.5 arcsec		
DM 9 3	Angle measurement				HLO, OS
	Deviation of the nominal rotation	360°	0.9 arcsec + 0.7•R	f.i. rotary heads and rotary table	
DM 9 4	Angle measurement				HLO, OS
	Clinometer	up to 360°	5 arcsec		
MW 1 0	Mass				HLO, OS
MW 1 2	Weighing instruments	(0 – 33) kg	2.5•10 <sup>-5</sup> •m + last digit + h/2	h = Repeatability	

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HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>1</sup>	Remarks	Location
		(0 – 2 500) kg	$6 \cdot 10^{-5} \cdot m + \text{last digit} + h/2$	h = Repeatability	

HCS code	Measured quantity, Instrument, Measure	Frequency	CMC <sup>1</sup>	Remarks	Location
LF 0 0	DC / LF				
LF 1 0	Direct voltage				HLO, OS
	0 mV – 200mV		$1.0 \cdot 10^{-5} \cdot U$ , minimum 0.15 $\mu$ V	Measuring	
	0.2 V – 2 V		$7 \cdot 10^{-6} \cdot U$	Measuring	
	2 V – 20 V		$5 \cdot 10^{-6} \cdot U$	Measuring	
	20 V – 200 V		$7 \cdot 10^{-6} \cdot U$	Measuring	
	200 V – 1000 V		$8 \cdot 10^{-6} \cdot U$	Measuring	
	0 mV – 220 mV		$2.0 \cdot 10^{-5} \cdot U$ , minimum 1.5 $\mu$ V	Generate	
	0.22 V – 2,2 V		$7 \cdot 10^{-6} \cdot U$	Generate	
	2.2 V – 22 V		$1.0 \cdot 10^{-5} \cdot U$	Generate	
	22 V – 220 V		$1.5 \cdot 10^{-5} \cdot U$	Generate	
	220 V – 1100 V		$1.0 \cdot 10^{-5} \cdot U$	Generate	
LF 2 0	Direct current				HLO, OS
	1 $\mu$ A – 200 $\mu$ A		$1 \cdot 10^{-4} \cdot I$ , minimum 0.5 nA	Measuring	
	200 $\mu$ A – 20 mA		$3 \cdot 10^{-5} \cdot I$	Measuring	
	20 mA – 200 mA		$7 \cdot 10^{-5} \cdot I$	Measuring	
	0.2 A – 2 A		$2.5 \cdot 10^{-4} \cdot I$	Measuring	