



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	Frequency	CMC ¹	Remarks	Location
	19 Ω, 100 Ω, 190 Ω, 1 kΩ, 1.9 kΩ, 10 kΩ, 19 kΩ, 100 kΩ, 190 kΩ		$2.0 \cdot 10^{-5} \cdot R$	Generate	
	1 MΩ, 1.9 MΩ		$3 \cdot 10^{-5} \cdot R$	Generate	
	10 MΩ		$4 \cdot 10^{-5} \cdot R$	Generate	
	19 MΩ, 100 MΩ		$6 \cdot 10^{-5} \cdot R$	Generate	
LF 6 5	LF Capacity				HLO, OS
	2 nF, 10 nF, 20 nF, 200 nF	1 kHz	$1.0 \cdot 10^{-3} \cdot C$	Generate only sine-shaped signals	

HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
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 \text{ hPa} + 25 \cdot 10^{-5} \cdot (p - 100 \text{ kPa}) $		
		(1.1 – 60.1) MPa a	$ 1 \cdot 10^{-3} \cdot (p - 0.1 \text{ MPa}) $	By comparison with digital pressure indicators	HLO, OS
PV 1 2	Relative pressure	(-1.5 - -90) kPa g	$25 \cdot 10^{-5} \cdot p_e$		HLO
		(1.5 - 1000) kPa g	$25 \cdot 10^{-5} \cdot p_e$		
		(1 - 60) MPa g	$1 \cdot 10^{-3} \cdot p_e$	By comparison with digital pressure indicators	HLO, OS
PV 2 0	Liquid pressure				

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HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
PV 2 1	Absolute pressure	(120 - 300) kPa a	$0.3 \text{ hPa} + 1 \cdot 10^{-3} \cdot (p - 100 \text{ kPa})$	By comparison with digital pressure indicators	HLO, OS
		(0.3 – 70.1) MPa a	$0.3 \text{ hPa} + 25 \cdot 10^{-5} \cdot (p - 0.1 \text{ MPa})$		
PV 2 2	Relative pressure	(20 - 200) kPa g	$1 \cdot 10^{-3} \cdot p_e$	By comparison with digital pressure indicators	HLO, OS
		(0.2 - 70) MPa g	$25 \cdot 10^{-5} \cdot p_e$		
TE 1 0	Resistance thermometer with and without readout	-20 °C up to 250 °C	0.10 °C	By comparison in liquid block baths with external reference probe	HLO, OS
		250 °C up to 650 °C	0.20 °C		
TE 3 0	Thermocouple with and without readout	-20 °C up to 250 °C	0.10 °C	By comparison in liquid block baths with external reference probe	HLO, OS
		250 °C up to 650 °C	0.20 °C		
TF 2 0	Relative time				HLO
	Electronic chronometers	24 h	0.1 s / 24 h	Direct measurement	
	Mechanical chronometers	24 h	5 s / 24 h	Direct measurement	
TF 2 1	Time and Frequency				HLO
	10 Hz – 225 MHz		$3 \cdot 10^{-6} \cdot f$	Measure	
TF 2 2	Time interval				HLO