

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 Zoetermeer B.V.  
Technical Operations  
Zoetermeer**

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 052**

is granted on 12 September 1989

This declaration is valid until

**1 March 2022**

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



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

of **TRESCAL Zoetermeer B.V.**  
**Technical Operations**

This annex is valid from: **05-06-2020** to **01-03-2022**

Replaces annex dated: **19-02-2020**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
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TF 0 0	Time and Frequency				
TF 2 1	Frequency				ZTM
	100 kHz		$1 \cdot 10^{-11} \cdot f$	Measurement measuring time $\tau \geq 1,000$ s	
	1 MHz		$1 \cdot 10^{-11} \cdot f$		
	5 MHz		$1 \cdot 10^{-11} \cdot f$		
	10 MHz		$1 \cdot 10^{-11} \cdot f$		
	0.1 Hz – 1 Hz		12 $\mu$ Hz	Measurement. Generation measuring time $\tau \geq 20$ s	
	1 Hz – 10 Hz		12 $\mu$ Hz		
	10 Hz – 100 Hz		12 $\mu$ Hz – 1.2 $\mu$ Hz		
	100 Hz – 1 kHz		1.2 $\mu$ Hz		
	1 kHz – 10 kHz		1.2 $\mu$ Hz		
	10 kHz – 100 kHz		1.2 $\mu$ Hz		
	100 kHz – 1 MHz		1.2 $\mu$ Hz – 12 $\mu$ Hz		
	1 MHz – 10 MHz		12 $\mu$ Hz – 0.12 mHz		

of **TRESCAL Zoetermeer B.V.**  
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HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
	10 MHz – 100 MHz		0.12 mHz – 1.2 mHz		
	100 MHz – 1 GHz		1.2 mHz – 12 mHz		
	1 GHz – 3 GHz		12 mHz – 14 mHz		
	3 GHz – 27.5 GHz		1.2 Hz		
TF 2 2	Time interval			Measurement	ZTM
	100 ps – 1 ns		$1.2 \cdot 10^{-9} \cdot T$		
	1 ns – 10 ns		$1.2 \cdot 10^{-9} \cdot T$		
	10 ns – 100 ns		$1.2 \cdot 10^{-9} \cdot T$		
	100 ns – 1 μs		$1.2 \cdot 10^{-9} \cdot T$		
	1 μs – 10 μs		$1.2 \cdot 10^{-9} \cdot T$		
	10 μs – 100 μs		$1.2 \cdot 10^{-9} \cdot T$		
	100 μs – 1 ms		$1.2 \cdot 10^{-9} \cdot T$		
	1 ms – 10 ms		$1.2 \cdot 10^{-9} \cdot T$		
	10 ms – 100 ms		$1.2 \cdot 10^{-8} \cdot T - 1.2 \cdot 10^{-6} \cdot T$		
	100 ms – 1 s		$1.2 \cdot 10^{-6} \cdot T - 1.2 \cdot 10^{-5} \cdot T$		
	1 s – 10 s		$1.2 \cdot 10^{-5} \cdot T - 1.2 \cdot 10^{-4} \cdot T$		
				Measurement	
	0.1 μs – 100 ms		$1 \cdot 10^{-6} \cdot T + 10 \text{ ns}$	Equipment with separated electrical start and stop inputs.	
	100 ms – 1 s		$1 \cdot 10^{-5} \cdot T + 10 \text{ ns}$		
	1 s – 10 s		$1 \cdot 10^{-4} \cdot T + 10 \text{ ns}$		