



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 2026

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: **24-04-2025 to 01-12-2028**

Replaces annex dated: **12-06-2024**

HCS code	Measured quantity, Instrument, Measure	Range	CMC ²	Remarks	Location
OQ 1 5	Linearity of optical power meters				ZTM
	-5 dBm to -55 dBm (316 μ W – 3.16 nW)	850 nm	0.05 dB	Linearity calibration relative to -10 dBm (e.g. optical power meter)	
	-5 dBm to -55 dBm (316 μ W – 3.16 nW)	1300 nm	0.05 dB		
	+3 dBm to -55 dBm (2 mW – 3.16 nW)	1310 nm	0.05 dB		
	+3 dBm to -55 dBm (2 mW – 3.16 nW)	1550 nm	0.05 dB		
	-5 dBm to -55 dBm (316 μ W – 3.16 nW)	1625 nm	0.05 dB		
OQ 1 5	Optical attenuator				ZTM
	0 dB to 45 dB	850 nm	0.06 dB	Measurement of incremental loss (e.g. optical step attenuator)	
	0 dB to 45 dB	1300 nm	0.06 dB		
	0 dB to 55 dB	1310 nm	0.05 dB		
	0 dB to 55 dB	1550 nm	0.05 dB		
	0 dB to 50 dB	1625 nm	0.05 dB		
TE 0 0	Temperature				
TE 15 0	Cold junction compensation				ZTM
TE 15 1	Compensation wires for reference junction	0 °C	0.25 °C	Cold junction compensation, thermocouple J and K	

Electrical and optical calibrations are performed at nominal 23 °C.

The CMC in RF and Microwave measurements are applicable to instruments with a characteristic impedance of nominal 50 Ohm

- 1) Measurements are performed at a fixed set of measurement frequencies;
- 2) Calibration factor is applicable to measurements relative to 50 MHz;
- 3) CMC is calculated for a test object VSWR of 1.01 and the maximal VSWR for the uncertainty calculation is 1.35;
- 4) CMC is calculated for a test object with a typical VSWR of 1 to 1.27;