



EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. 317/2025

OPTOKON, a.s.
with registered office Červený Kříž 250, 586 01 Jihlava
Company Registration No. 13692283

for the Calibration Laboratory No. 2315
OPTOKON Calibration Laboratory

Scope of accreditation:

Calibration in the fields of temperature, humidity and optical quantities to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 580/2023 of 07/11/2023, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **02/07/2026**

Prague: 27/06/2025



Signed in the Czech original:
Jan Velíšek on 27/06/2025

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

**The Appendix is an integral part of
Certificate of Accreditation No. 317/2025 of 27/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

OPTOKON, a.s.
CAB number 2315, OPTOKON Calibration Laboratory
Červený Kříž 250, 586 01 Jihlava

Calibration laboratory locations:

1. **OPTOKON Jihlava** Calibration Laboratory OPTOKON, Červený Kříž 250, 586 01 Jihlava
2. **OPTOKON Malaysia** Calibration Laboratory OPTOKON Malaysia, OPTOKON PLT, 303-4-25, KRYSTAL POINT, JALAN SULTAN AZLAN SHAH, 11900 BAYAN LEPAS. PULAU PINANG, Malaysia

CMC for the field of measured quantity: Temperature

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Loca- tion
		min.	unit	max.	unit					
1	Indicating (direct indicating) thermometers	-40 °C		to	140 °C		0.41°C	Comparison with a standard in a conditioning chamber	PPKL 2.8	1

¹ Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

³ If the document identifying the calibration procedure is dated only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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CMC for the field of measured quantity: Air humidity

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Loca- tion
		min.	unit	max.	unit					
1	Indicating (direct indicating) Hygrometers	30 % RH		to	90 % RH	21 °C to 25 °C	3.7 % RH	Comparison with a standard in a conditioning chamber	PPKL 2.9	1

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CMC for the field of measured quantity: Optical quantities

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Loca- tion
		min.	unit	max.	unit					
1 *	Optical power / optical power meters	-60 dBm	to	-50 dBm		635 nm to 980 nm	4.5 %	Comparison of measurement of optical radiation in fibre by an optical power meter detector with standard optical power meter using comparative method	PPKL 2.1 (ČSN EN 61315 ed. 3)	1, 2
		-50 dBm	to	-40 dBm			3.2 %			
		-40 dBm	to	+10 dBm			3.0 %			
		-60 dBm	to	-50 dBm		1,270 nm to 1,610 nm	4.2 %			
		-50 dBm	to	-40 dBm			2.7 %			
		-40 dBm	to	+10 dBm			2.5 %			
		-60 dBm	to	-50 dBm		1,625 nm to 1,650 nm	4.6 %			
		-50 dBm	to	-40 dBm			3.2 %			
		-40 dBm	to	+10 dBm			3.0 %			
2	Optical attenuation / optical attenuator	0 dB	to	40 dB		1,270 nm to 1,650 nm	0.26 dB	Measurement of insertion loss for individual settings of an attenuator	PPKL 2.2 (ČSN EN 61300-3-4 ed. 2)	1, 2
		40 dB	to	65 dB			0.30 dB			
3	Wavelength / optical source for fibre optics	600 nm	to	1,700 nm		medium wavelength	0.33 nm	Measurement of wavelength of optical radiation in fibre by optical spectral analyser (OSA)	PPKL 2.3 (ČSN EN 61315 ed. 3)	1, 2
		600 nm	to	1,700 nm		maximum intensity	0.33 nm			
4	Optical return loss / optical return loss meter	3 dB	to	32 dB		1,000 nm to 1,700 nm	0.5 dB	Measurement of optical return loss and comparison with a reference value	PPKL 2.4 (ČSN EN 61300-3-6 ed. 2)	1, 2

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Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Loca- tion
		min.	unit	max.	unit					
		32 dB	to	42 dB			0.7 dB			
		42 dB	to	52 dB			1.0 dB			
		52 dB	to	61 dB			1.5 dB			
5	Optical length of SMF fibre/ OTDR optical reflectometers	0 km	to	50 km		1,310 nm, 1,550 nm, 1,625 nm	0.40 m	Method based on optical fibre delay line	PPKL 2.5 (ČSN EN 61746-1)	1, 2
	Optical length of MMF fibre/ optical reflectometers	0 km	to	5 km		850 nm, 1,300 nm	0.20 m	Method based on optical fibre delay line	PPKL 2.5 (ČSN EN 61746-2)	1
	Optical attenuation of SMF fibre/ OTDR optical reflectometers	0 dB	to	20 dB		1,310 nm, 1,550 nm, 1,625 nm	0.02 dB	OTDR measurement of attenuation for various power levels and distances	PPKL 2.5 (ČSN EN 61746-1)	1, 2
6*	Spectral responsiveness / optical radiation detectors – Newport 818-xx photodiodes	0	to	1		635 to 940 nm, 1,625 nm, 1,650 nm at optical power -10 dBm to -20 dBm	3 %	Measurement of optical power and current	PPKL 2.7	1, 2
		0	to	1		1,270 nm to 1,610 nm at optical power -10 dBm to -20 dBm	2,6 %			
7	Wavelength / Optical spectrum analyzers	1250 nm	to	1650 nm			0.2 nm	Comparison with a reference wavelength meter	PPKL 2.6 (ČSN EN 62129-1)	1, 2
	Optical power / Optical spectrum analyzers	-40 dBm	to	+10 dBm		1,250 nm to 1,650 nm	2.5 %	Comparison with a reference optical power meter	PPKL 2.1 (ČSN EN 61315 ed. 2)	1, 2
	Linearity / Optical spectrum analyzers	-60 dBm	to	-50 dBm		1,310 nm, 1,550 nm	0.24 dB	Comparison with a reference optical power meter using an optical attenuator	PPKL 2.6 (ČSN EN 62129-1)	1, 2
		-50 dBm	to	-40 dBm			0.09 dB			
		-40 dBm	to	0 dBm			0.05 dB			

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- ³ If the document identifying the calibration procedure is dated only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "