

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **K 166**

of **Lighthouse Worldwide Solutions Benelux B.V.**

This annex is valid from: **05-07-2023** to **01-01-2025**

Replaces annex dated: **16-12-2023**

Location(s) where activities are performed under accreditation

Head Office

Van Heemstraweg 19 A
6657 KD
Boven-Leeuwen
The Netherlands

Location	Abbreviation/ location code
Van Heemstraweg 19 A 6657 KD Boven-Leeuwen The Netherlands	BVL
On-site with customer	C

HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
DM 00	Dimensional quantities				

¹ Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to EA-4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

of **Lighthouse Worldwide Solutions Benelux B.V.**

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HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
DM 40	Airborne particle counters, Size calibration, Verification of size setting	0,10 µm 0,15 µm 0,20 µm 0,25 µm 0,30 µm 0,50 µm 0,70 µm 1,00 µm 1,50 µm 2,00 µm 2,50 µm 3,00 µm 5,00 µm 10,0 µm	0.002 µm 0.005 µm 0.005 µm 0.005 µm 0.006 µm 0.008 µm 0.010 µm 0.018 µm 0.022 µm 0.021 µm 0.032 µm 0.031 µm 0.055 µm 0.16 µm	ISO 21501-4	BVL C
	Airborne particle counter, size resolution	0.1 µm – 1.0 µm	1.4 %SR	ISO 21501-4	BVL C
FG 10	Flow of gas				
FG 11	Airborne particle counters, volumetric flow φ	2.4 l/min – 115 l/min	3.3 % $\cdot\varphi$	ISO 21501-4	BVL C
	Airsamples, volumetric flow	15 lpm - 35 lpm 90 lpm – 110 lpm	0.44 lpm 1.5 lpm		BVL C
	Airborne particle counters, counting efficiency	0.1 µm – 1.0 µm	1.8 %CE	ISO 21501-4	BVL C
	Airborne particle counter, zero count / false count rate	N/A	N/A	ISO 21501-4 and JIS B 9921	BVL C
TF 00	Time and frequency				
TF 22	Airborne particle counters, time	60 sec – 3600 sec	0.4 sec at 60 sec 0.6 sec at 3600 sec	ISO 21501-4	BVL C

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HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
TF 22	Airsamplers, time	60 sec – 3600 sec	0.4 sec at 60 sec 0.6 sec at 3600 sec		BVL C
TE 40	Self-indicating thermometers				
TE 41	Thermometers with reading unit	-90 °C – 125 °C	0.10 °C	Calibration in baths or furnaces Also includes thermometers with 4 – 20 mA / 0 – 10 V output	BVL C
		5 °C – 50 °C	0.28 °C	Air temperature, calibration in climate chamber Also includes thermometers with 4 – 20 mA / 0 – 10 V output	BVL C
RH 00	Humidity				
RH 13	Relative humidity sensors	15 %rh – 95 %rh	2.0 %rh	Humidity is measured in the temperature range of 15 °C – 40 °C Also includes sensors with 4 – 20 mA / 0 – 10 V output	BVL C
PV 00	Pressure and vacuum				
PV 12	Differential pressure	-100 Pa – 100 Pa -1 000 Pa – 1 000 Pa	0.67 Pa 5.8 Pa	Also includes sensors with 4 – 20 mA / 0 – 10 V output	BVL C

Note

The environmental conditions during all calibrations are between 15 °C and 30 °C, and 20 %rh and 80 %rh.