Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **K 006**

of **KEMA B.V.**

This annex is valid from: **19-03-2026** to **01-04-2030** Replaces annex dated: **12-11-2025**

Location(s) where activities are performed under accreditation

Head Office

Klingelbeekseweg 195
6812 DE
Arnhem
The Netherlands

Location	Abbreviation/ location code
Klingelbeekseweg 195 6812 DE Arnhem The Netherlands	ARN

HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
LF 0 0	DC/LF electricity				
LF 1 3	Direct high voltage				ARN
	5 kV – 200 kV		$3{,}5 \cdot 10^{-3} \cdot U$		
	Lightning impulse			Full wave	
	15 kV – 500 kV		$8 \cdot 10^{-3} \cdot U_t$ $4 \cdot 10^{-2} \cdot T_1$ $2 \cdot 10^{-2} \cdot T_2$	 T_1 = 0,84 – 5,0 µs T_2 = 40 – 60 µs	
	Chopped lightning impulse			Chopped wave	
	15 kV – 500 kV		$1{,}0 \cdot 10^{-2} \cdot U_t$ $5 \cdot 10^{-2} \cdot T_c$ $5 \cdot 10^{-2} \cdot T_1$	 T_c = 2,5 µs T_1 = 1,2 µs	

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

J.A.W.M. de Haas

[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".

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
LF 3 0	Alternating Voltage				
LF 3 2	Alternating Voltage Ratio			Conventional voltage transformers (instrument transformers)	ARN
	Primary: 2 kV – 48 kV Secondary: 100 V or 110 V	50 Hz, 60 Hz	$2{,}0 \cdot 10^{-4} \cdot U_i / U_u$ 0,3 mrad		
	Primary: 25 kV – 277 kV Secondary: 100 / √3 V	50 Hz	$4{,}0 \cdot 10^{-4} \cdot U_i / U_u$ 0,3 mrad		
	Primary: 25 kV – 277 kV Secondary: 100 / √3 V	60 Hz	$6{,}0 \cdot 10^{-4} \cdot U_i / U_u$ 0,6 mrad		
	Primary: 12 kV – 346 kV Secondary: 100 / √3 V Or Secondary: 100 V	50 Hz, 60 Hz	$3{,}0 \cdot 10^{-4} \cdot U_i / U_u$ 0,3 mrad		
LF 3 3	Alternating High Voltage			Measuring	ARN
	2 kV – 346 kV	50 Hz, 60 Hz	$2{,}0 \cdot 10^{-3} \cdot U$	RMS	
	5 kV – 260 kV	20 Hz – 500 Hz	$0{,}8 \cdot 10^{-2} \cdot U$	RMS	
	2 kV – 346 kV	50 Hz, 60 Hz	$4{,}0 \cdot 10^{-3} \cdot U$	$\hat{U}/\sqrt{2}$	
	5 kV – 260 kV	20 Hz – 500 Hz	$0{,}8 \cdot 10^{-2} \cdot U$	$\hat{U}/\sqrt{2}$	
LF 4 0	Alternating Current				
LF 4 2	Alternating Current Ratio			Conventional current transformers (instrument transformers)	ARN
	Primary: 5 A – 6 kA Secondary: 1 A or 5 A	50 Hz, 60 Hz	$5 \cdot 10^{-5} \cdot I_{out} / I_{in}$ and 90 µrad		
	Primary: 0,05 kA – 12 kA Secondary: 1 A or 5 A	50 Hz, 60 Hz	$2{,}0 \cdot 10^{-4} \cdot I_i / I_u$ 0,3 mrad	At I/In < 20 % an additional contribution to the CMC might be applicable	
	Primary: 0,25 kA – 60 kA Secondary: 1 A or 5 A	50 Hz, 60 Hz	$2{,}0 \cdot 10^{-4} \cdot I_i / I_u$ 0,3 mrad		

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
	Primary: 1 A – 3 kA Secondary: 1 A or 5 A	50 Hz, 60 Hz	$2{,}0\cdot10^{-4}\cdot I_i / I_u$ 0,3 mrad		
LF 4 3	Alternating High Current				ARN
	10 A – 6 kA	50 Hz, 60 Hz	$3\cdot10^{-4}\cdot I$		
	0,25 kA – 60 kA	50 Hz, 60 Hz	$2{,}0\cdot10^{-3}\cdot I$		
	0,05 kA – 12 kA	50 Hz, 60 Hz	$2{,}0\cdot10^{-3}\cdot I$		
LF 6 0	Impedance (DC/LF)				
LF 6 2	DC Resistance				ARN
	20 µΩ – 50 µΩ		$1{,}6\cdot10^{-3}\cdot R$		
	50 µΩ – 100 µΩ		$8{,}0\cdot10^{-4}\cdot R$		
	100 µΩ – 0,3 mΩ		$6{,}0\cdot10^{-4}\cdot R$		
	0,3 mΩ – 10 mΩ		$4{,}0\cdot10^{-4}\cdot R$		
	10 mΩ – 100 mΩ		$3{,}0\cdot10^{-4}\cdot R$		
	100 mΩ – 1 Ω		$7{,}0\cdot10^{-5}\cdot R$		
	1 Ω – 2 Ω		$2{,}5\cdot10^{-5}\cdot R$		