

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 <sup>1</sup>	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		$8 \cdot 10^{-3} \cdot U_t$ $4 \cdot 10^{-2} \cdot T_1$ $2 \cdot 10^{-2} \cdot T_2$	$T_1 = 0,84 - 5,0 \mu s$ $T_2 = 40 - 60 \mu s$	
	Chopped lightning impulse			Chopped wave	

<sup>1</sup> 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 **KEMA B.V.**

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HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
	15 kV – 500 kV		$1,0 \cdot 10^{-2} \cdot U_t$ $5 \cdot 10^{-2} \cdot T_c$ $5 \cdot 10^{-2} \cdot T_1$	$T_c = 2,5 \mu s$ $T_1 = 1,2 \mu s$	
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: $100 / \sqrt{3}$ V	50 Hz	$4,0 \cdot 10^{-4} \cdot U_i / U_u$ 0,3 mrad		
	Primary: 25 kV – 277 kV Secondary: $100 / \sqrt{3}$ V	60 Hz	$6,0 \cdot 10^{-4} \cdot U_i / U_u$ 0,6 mrad		
	Primary: 12 kV – 346 kV Secondary: $100 / \sqrt{3}$ 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 $\mu rad$		

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