

Annex to declaration of accreditation (scope of accreditation)

Normative document: EN ISO/IEC 17025:2017

Registration number: K 063

of **Kiwa Assurance B.V.**

This annex is valid from: **01-05-2025** to **01-11-2025**

Replaces annex dated: **06-11-2024**

Location(s) where activities are performed under accreditation

Head Office

Sir Winston Churchilllaan 273
2288 AE
Rijswijk
The Netherlands

Location	Abbreviation/ location code
Sir Winston Churchilllaan 273 2288 AE Rijswijk The Netherlands	RIJ
Vijzelmolenlaan 7 3447 GX Woerden The Netherlands	WO
On-site	OS

HCS code	Measured quantity, Range	Frequency	CMC¹	Remarks	Location
LF 0 0	DC/LF ELECTRICITY				
LF 1 0	DIRECT VOLTAGE				WO
	0 mV – 2 mV		$6 \cdot 10^{-6} \cdot U + 1.1 \mu\text{V}$	Generating	
	2 mV – 20 mV		$8 \cdot 10^{-6} \cdot U + 1.1 \mu\text{V}$		
	20 mV – 200 mV		$1.0 \cdot 10^{-5} \cdot U + 1.0 \mu\text{V}$		
	200 mV – 2 V		$1.1 \cdot 10^{-5} \cdot U + 1.0 \mu\text{V}$		

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

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	2 V – 20 V		$6 \cdot 10^{-6} \cdot U + 22 \mu\text{V}$		
	20 V – 200 V		$8 \cdot 10^{-6} \cdot U + 0.2 \text{ mV}$		
	200 V – 1000 V		$9 \cdot 10^{-6} \cdot U + 2.7 \text{ mV}$		
	0 mV – 200 mV		$3 \cdot 10^{-5} \cdot U + 0.8 \mu\text{V}$	Measuring	
	200 mV – 2 V		$7 \cdot 10^{-6} \cdot U + 2.0 \mu\text{V}$		
	2 V – 20 V		$7 \cdot 10^{-6} \cdot U + 20 \mu\text{V}$		
	20 V – 200 V		$1.2 \cdot 10^{-5} \cdot U + 0.15 \text{ mV}$		
	200 V – 1000 V		$1.1 \cdot 10^{-5} \cdot U + 1.8 \text{ mV}$		
LF 2 0	DIRECT CURRENT				
	0 µA – 200 µA		$5 \cdot 10^{-3} \cdot I + 5 \text{ nA}$	Generating	WO
	200 µA – 2 mA		$5 \cdot 10^{-4} \cdot I + 12 \text{ nA}$		
	2 mA – 20 mA		$7 \cdot 10^{-5} \cdot I + 0.12 \mu\text{A}$		
	20 mA – 200 mA		$5 \cdot 10^{-5} \cdot I + 1.8 \mu\text{A}$		
	200 mA – 1 A		$1.2 \cdot 10^{-4} \cdot I + 30 \mu\text{A}$		
	1 A – 2 A		$2.4 \cdot 10^{-4} \cdot I + 0.04 \text{ mA}$		
	0 µA – 200 µA		$5 \cdot 10^{-2} \cdot I + 5 \text{ nA}$	Measuring	
	200 µA – 2 mA		$5 \cdot 10^{-3} \cdot I + 0.05 \mu\text{A}$		
	2 mA – 20 mA		$5 \cdot 10^{-4} \cdot I + 0.5 \mu\text{A}$		
	20 mA – 200 mA		$1.3 \cdot 10^{-4} \cdot I + 5 \mu\text{A}$		
	200 mA – 2 A		$2.4 \cdot 10^{-4} \cdot I + 0.05 \text{ mA}$		

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LF 3 0	ALTERNATING VOLTAGE				WO
	1 mV – 2 mV	30 Hz – 3.3 kHz	$1 \cdot 10^{-3} \cdot U + 7 \mu\text{V}$	Generating, 2-wire	
		3.3 kHz – 10 kHz	$1.8 \cdot 10^{-3} \cdot U + 7 \mu\text{V}$		
		10 kHz – 33 kHz	$4 \cdot 10^{-3} \cdot U + 7 \mu\text{V}$		
		33 kHz – 100 kHz	$1.0 \cdot 10^{-2} \cdot U + 7 \mu\text{V}$		
	2 mV – 20 mV	30 Hz – 1 kHz	$3.2 \cdot 10^{-4} \cdot U + 7 \mu\text{V}$		
		1 kHz – 3.3 kHz	$5 \cdot 10^{-4} \cdot U + 7 \mu\text{V}$		
		3.3 kHz – 10 kHz	$1.3 \cdot 10^{-3} \cdot U + 6 \mu\text{V}$		
		10 kHz – 33 kHz	$3.5 \cdot 10^{-3} \cdot U + 6 \mu\text{V}$		
		33 kHz – 100 kHz	$1.2 \cdot 10^{-2} \cdot U + 6 \mu\text{V}$		
	20 mV – 200 mV	30 Hz – 330 Hz	$2.3 \cdot 10^{-4} \cdot U + 12 \mu\text{V}$		
		330 Hz – 1 kHz	$3.1 \cdot 10^{-4} \cdot U + 10 \mu\text{V}$		
		1 kHz – 3.3 kHz	$6 \cdot 10^{-4} \cdot U + 6 \mu\text{V}$		
		3.3 kHz – 10 kHz	$1.3 \cdot 10^{-3} \cdot U + 6 \mu\text{V}$		
		10 kHz – 33 kHz	$3.6 \cdot 10^{-3} \cdot U + 6 \mu\text{V}$		
		33 kHz – 100 kHz	$1.2 \cdot 10^{-2} \cdot U + 6 \mu\text{V}$		
	90 mV – 2V	10 Hz – 32 Hz	$1.3 \cdot 10^{-4} \cdot U + 50 \mu\text{V}$	Generating, 4-wire	
		32 Hz – 330 Hz	$9 \cdot 10^{-5} \cdot U + 50 \mu\text{V}$		
		330 Hz – 3.3 kHz	$6 \cdot 10^{-5} \cdot U + 30 \mu\text{V}$		
		3.3 kHz – 33 kHz	$9 \cdot 10^{-5} \cdot U + 25 \mu\text{V}$		
		33 kHz – 100 kHz	$1.0 \cdot 10^{-4} \cdot U + 0.22 \text{ mV}$		
		100 kHz – 330 kHz	$1.6 \cdot 10^{-3} \cdot U + 0.8 \text{ mV}$		
		330 kHz – 1 MHz	$1.4 \cdot 10^{-2} \cdot U + 2.0 \text{ mV}$		
	2 V – 20 V	10 Hz – 32 Hz	$1.1 \cdot 10^{-4} \cdot U + 0.6 \text{ mV}$		
		32 Hz – 330 Hz	$7 \cdot 10^{-5} \cdot U + 0.5 \text{ mV}$		
		330 Hz – 33 kHz	$6 \cdot 10^{-5} \cdot U + 0.4 \text{ mV}$		
		33 kHz – 100 kHz	$2.2 \cdot 10^{-4} \cdot U + 2.0 \text{ mV}$		
	2 V – 20 V	100 kHz – 330 kHz	$1.6 \cdot 10^{-3} \cdot U + 7 \text{ mV}$		

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		330 kHz – 1 MHz	$1.1 \cdot 10^{-2} \cdot U + 12 \text{ mV}$		
20 V – 200 V		10 Hz – 32 Hz	$1.7 \cdot 10^{-4} \cdot U + 9 \text{ mV}$		
		32 Hz – 330 Hz	$1.2 \cdot 10^{-4} \cdot U + 6 \text{ mV}$		
		330 Hz – 10 kHz	$7 \cdot 10^{-5} \cdot U + 5 \text{ mV}$		
		10 kHz – 33 kHz	$8 \cdot 10^{-5} \cdot U + 6 \text{ mV}$		
		33 kHz – 100 kHz	$4 \cdot 10^{-4} \cdot U + 20 \text{ mV}$		
200 V – 1000 V		50 Hz – 330 Hz	$9 \cdot 10^{-4} \cdot U + 50 \text{ mV}$		
		330 Hz – 10 kHz	$7 \cdot 10^{-4} \cdot U + 40 \text{ mV}$		
		10 kHz – 33 kHz	$9 \cdot 10^{-4} \cdot U + 50 \text{ mV}$		
2 mV – 200 mV		20 Hz – 40 Hz	$3 \cdot 10^{-4} \cdot U + 15 \mu\text{V}$	Measuring	
		40 Hz – 2 kHz	$2.8 \cdot 10^{-4} \cdot U + 15 \mu\text{V}$		
		2 kHz – 10 kHz	$2.7 \cdot 10^{-4} \cdot U + 15 \mu\text{V}$		
		10 kHz – 30 kHz	$5 \cdot 10^{-4} \cdot U + 20 \mu\text{V}$		
		30 kHz – 100 kHz	$1.0 \cdot 10^{-3} \cdot U + 40 \mu\text{V}$		
200 mV – 2 V		20 Hz – 40 Hz	$2.1 \cdot 10^{-4} \cdot U + 55 \mu\text{V}$		
		40 Hz – 100 Hz	$1.9 \cdot 10^{-4} \cdot U + 55 \mu\text{V}$		
		100 Hz – 300 Hz	$1.7 \cdot 10^{-4} \cdot U + 55 \mu\text{V}$		
		300 Hz – 1000 Hz	$1.6 \cdot 10^{-4} \cdot U + 40 \mu\text{V}$		
		1 kHz – 3 kHz	$1.8 \cdot 10^{-4} \cdot U + 40 \mu\text{V}$		
		3 kHz – 10 kHz	$3 \cdot 10^{-4} \cdot U + 0.05 \text{ mV}$		
		10 kHz – 60 kHz	$6 \cdot 10^{-4} \cdot U + 0.30 \text{ mV}$		
		60 kHz – 100 kHz	$6 \cdot 10^{-4} \cdot U + 0.30 \text{ mV}$		
		100 kHz – 300 kHz	$4 \cdot 10^{-3} \cdot U + 2.5 \text{ mV}$		
		300 kHz – 1 MHz	$1.2 \cdot 10^{-2} \cdot U + 24 \text{ mV}$		
2 V – 20 V		20 Hz – 40 Hz	$2.1 \cdot 10^{-4} \cdot U + 0.6 \text{ mV}$		
		40 Hz – 100 Hz	$1.9 \cdot 10^{-4} \cdot U + 0.6 \text{ mV}$		
		100 Hz – 3 kHz	$1.9 \cdot 10^{-4} \cdot U + 0.6 \text{ mV}$		
		3 kHz – 10 kHz	$3.0 \cdot 10^{-4} \cdot U + 0.5 \text{ mV}$		

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20 V - 200 V		10 kHz – 60 kHz	$6 \cdot 10^{-4} \cdot U + 3.0 \text{ mV}$		
		60 kHz – 300 kHz	$3.7 \cdot 10^{-3} \cdot U + 30 \text{ mV}$		
		300 kHz – 1 MHz	$1.2 \cdot 10^{-2} \cdot U + 0.24 \text{ V}$		
		20 Hz – 40 Hz	$2.2 \cdot 10^{-4} \cdot U + 6 \text{ mV}$		
		40 Hz – 100 Hz	$1.9 \cdot 10^{-4} \cdot U + 7 \text{ mV}$		
		100 Hz – 300 Hz	$1.7 \cdot 10^{-4} \cdot U + 6 \text{ mV}$		
		300 Hz – 10 kHz	$1.8 \cdot 10^{-4} \cdot U + 5 \text{ mV}$		
		10 kHz – 30 kHz	$3.0 \cdot 10^{-4} \cdot U + 6 \text{ mV}$		
		30 kHz – 100 kHz	$7 \cdot 10^{-4} \cdot U + 30 \text{ mV}$		
	200 V - 1000 V	40 Hz – 3 kHz	$2.2 \cdot 10^{-4} \cdot U + 30 \text{ mV}$		
		3 kHz – 10 kHz	$1.9 \cdot 10^{-4} \cdot U + 0.04 \text{ V}$		
		10 kHz – 30 kHz	$4 \cdot 10^{-4} \cdot U + 0.08 \text{ V}$		
LF 4 0	ALTERNATING CURRENT				
	100 µA – 200 µA	10 Hz – 32 Hz	$3.0 \cdot 10^{-4} \cdot I + 13 \text{ nA}$	Generating	WO
		32 Hz – 330 Hz	$1.9 \cdot 10^{-3} \cdot I + 11 \text{ nA}$		
		330 Hz – 1000 Hz	$6 \cdot 10^{-3} \cdot I + 5 \text{ nA}$		
	200 µA – 2 mA	10 Hz – 32 Hz	$1.6 \cdot 10^{-4} \cdot I + 0.15 \mu\text{A}$		
		32 Hz – 330 Hz	$1.6 \cdot 10^{-4} \cdot I + 0.17 \mu\text{A}$		
		330 Hz – 1000 Hz	$1.5 \cdot 10^{-4} \cdot I + 0.17 \mu\text{A}$		
		1 kHz – 3.3 kHz	$2.0 \cdot 10^{-4} \cdot I + 0.20 \mu\text{A}$		
		3.3 kHz – 5 kHz	$2.8 \cdot 10^{-4} \cdot I + 0.17 \mu\text{A}$		
	2 mA – 20 mA	10 Hz – 32 Hz	$1.6 \cdot 10^{-4} \cdot I + 1.5 \mu\text{A}$		
		32 Hz – 330 Hz	$1.6 \cdot 10^{-4} \cdot I + 1.7 \mu\text{A}$		
		330 Hz – 1000 Hz	$1.4 \cdot 10^{-4} \cdot I + 1.7 \mu\text{A}$		
	20 mA – 200 mA	1 kHz – 3.3 kHz	$2.6 \cdot 10^{-4} \cdot I + 1.7 \mu\text{A}$		
		3.3 kHz – 5 kHz	$2.7 \cdot 10^{-4} \cdot I + 1.7 \mu\text{A}$		
	20 mA – 200 mA	10 Hz – 32 Hz	$1.6 \cdot 10^{-4} \cdot I + 15 \mu\text{A}$		

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200 mA – 1 A		32 Hz – 330 Hz	$1.6 \cdot 10^{-4} / + 16 \mu\text{A}$		
		330 Hz – 1000 Hz	$1.4 \cdot 10^{-4} / + 17 \mu\text{A}$		
		1 kHz – 3.3 kHz	$2.6 \cdot 10^{-4} / + 17 \mu\text{A}$		
		3.3 kHz – 5 kHz	$2.6 \cdot 10^{-4} / + 17 \mu\text{A}$		
		10 Hz – 32 Hz	$4 \cdot 10^{-4} / + 0.15 \text{ mA}$		
		32 Hz – 330 Hz	$6 \cdot 10^{-4} / + 0.15 \text{ mA}$		
		330 Hz – 1000 Hz	$1.5 \cdot 10^{-3} / + 0.10 \text{ mA}$		
		1 kHz – 3.3 kHz	$5 \cdot 10^{-3} / + 0.09 \text{ mA}$		
		3.3 kHz – 5 kHz	$8 \cdot 10^{-3} / + 33 \mu\text{A}$		
1 A - 2 A		10 Hz – 32 Hz	$8 \cdot 10^{-4} / + 0.20 \text{ mA}$		
		32 Hz – 330 Hz	$9 \cdot 10^{-4} / + 0.20 \text{ mA}$		
		330 Hz – 1000 Hz	$1.6 \cdot 10^{-3} / + 0.20 \text{ mA}$		
		1 kHz – 3.3 kHz	$5 \cdot 10^{-3} / + 0.09 \text{ mA}$		
		3.3 kHz – 5 kHz	$8 \cdot 10^{-3} / + 33 \mu\text{A}$		
100 µA – 200 µA					
		50 Hz – 1000 Hz	$4 \cdot 10^{-4} / + 25 \text{ nA}$	Measuring	
		1 kHz – 5 kHz	$6 \cdot 10^{-4} / + 0.05 \mu\text{A}$		
200 µA – 2 mA		50 Hz – 300 Hz	$4 \cdot 10^{-4} / + 0.25 \mu\text{A}$		
		300 Hz – 1000 Hz	$4 \cdot 10^{-4} / + 0.25 \mu\text{A}$		
		1 kHz – 5 kHz	$6 \cdot 10^{-4} / + 0.5 \mu\text{A}$		
2 mA – 20 mA		50 Hz – 300 Hz	$4 \cdot 10^{-4} / + 2.5 \mu\text{A}$		
		300 Hz – 1000 Hz	$4 \cdot 10^{-4} / + 2.5 \mu\text{A}$		
		1 kHz – 5 kHz	$6 \cdot 10^{-4} / + 5 \mu\text{A}$		
20 mA – 200 mA		50 Hz – 1000 Hz	$4 \cdot 10^{-4} / + 25 \mu\text{A}$		
		1 kHz – 5 kHz	$6 \cdot 10^{-4} / + 0.05 \text{ mA}$		
200 mA – 2 A		50 Hz – 1000 Hz	$1.2 \cdot 10^{-3} / + 0.5 \text{ mA}$		
		1 kHz – 5 kHz	$2.5 \cdot 10^{-3} / + 1.3 \text{ mA}$		
LF 6 0	IMPEDANCE (DC/LF)				

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LF 6 2	DC resistance				WO
	1 Ω		0.2 mΩ	Generating, 4-wire	
	10 Ω		0.5 mΩ		
	100 Ω		1.9 mΩ		
	1 kΩ		21 mΩ		
	10 kΩ		0.2 Ω		
	100 kΩ		2.3 Ω		
	1 MΩ		33 Ω		
	10 MΩ		0.7 kΩ		
	100 MΩ		22 kΩ		
	10 Ω		0.24 Ω	Generating, 2-wire	
	100 Ω		0.24 Ω		
	1 kΩ		0.35 Ω		
	10 kΩ		0.5 Ω		
	100 kΩ		2.6 Ω		
	1 MΩ		33 Ω		
	10 MΩ		0.7 kΩ		
	100 MΩ		22 kΩ		
	0 Ω – 20 Ω		$2.0 \cdot 10^{-5} \cdot R + 0.12 \text{ mΩ}$	Measuring, 4-wire	
	20 Ω – 200 Ω		$1.5 \cdot 10^{-5} \cdot R + 0.5 \text{ mΩ}$		
	200 Ω – 2000 Ω		$1.2 \cdot 10^{-5} \cdot R + 2.5 \text{ mΩ}$		
	2 kΩ – 20 kΩ		$1.2 \cdot 10^{-5} \cdot R + 25 \text{ mΩ}$		
	20 kΩ – 200 kΩ		$2.1 \cdot 10^{-5} \cdot R + 0.4 \text{ Ω}$		
	200 kΩ – 2 MΩ		$3.1 \cdot 10^{-5} \cdot R + 10 \text{ Ω}$		
	2 MΩ – 20 MΩ		$4.0 \cdot 10^{-5} \cdot R + 0.25 \text{ kΩ}$	Measuring, 2-wire	
	20 MΩ – 200 MΩ		$3.5 \cdot 10^{-4} \cdot R + 15 \text{ kΩ}$		

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	200 MΩ – 2 GΩ		$3.5 \cdot 10^{-3} \cdot R + 1.1 \text{ M}\Omega$		
RF 0 0	HIGH FREQUENCY QUANTITIES				
RF 2 0	Impedance				WO
	LISN Impedance	9 kHz – 30 MHz	0.3 Ω - 1.1 Ω 1.2° – 8°	50 Ω // (50 μH + 5 Ω) and 50 Ω // 50 μH	
		100 kHz – 150 MHz	0.5 Ω - 0.9 Ω 3.3° – 8°	50 Ω // (5 μH + 1 Ω) and 50 Ω // 5 μH	
	CDN Impedance	150 kHz – 300 MHz	5 Ω – 6 Ω 2.4° – 3.9°	150 Ω, 0 ° nominal	
RF 2 1	Reflection coefficient (N-type)			3)	WO, OS
	Magnitude 0 – 1.0	9 kHz – 1 MHz	0.005 (0.013) + 0.007·ρ + 0.005·ρ ²	Nominal impedance 50 Ω at nominal -10 dBm RF power	
		1 MHz – 2 GHz	0.005 (0.013) + 0.003·ρ + 0.005·ρ ²		
		2 GHz – 8 GHz	0.02 (0.03) + 0.004·ρ + 0.02·ρ ²		
		8 GHz – 18 GHz	0.03 (0.04) + 0.004·ρ + 0.05·ρ ²		
	(2.92mm)	10 MHz - 2 GHz	0,008 + 0,010·ρ + 0,005·ρ ²		
		2 GHz – 8 GHz	0,030 + 0,010·ρ + 0,005·ρ ²		
		8 GHz – 18 GHz	0.05 + 0.010·ρ + 0.005·ρ ²		
		18 GHz – 26.5 GHz	0.06 + 0.010·ρ + 0.005·ρ ²		
		26.5 GHz – 40 GHz	0.08 + 0.010·ρ + 0.005·ρ ²		
	Phase -180° – +180°	9 kHz – 1 GHz	$u(\theta) = \arcsin\left(\frac{u(\rho)}{ \rho }\right)$	If the magnitude is less than its uncertainty, the phase uncertainty is ± 180°	

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RF 2 2	Transmission Coefficient			For coaxial 50 Ω devices 1, 3)	WO, OS
	Magnitude (0 – -30 dB) (N-type)	9 kHz – 100 kHz	0.04 dB (0.20 dB)	At nom. -10 dBm RF power	OS
		100 kHz – 10 MHz	0.04 dB (0.14 dB)		
		10 MHz – 1500 MHz	0.08 dB (0.14 dB)		
		1500 MHz – 8 GHz	0.12 dB (0.18 dB)		
	(2.92 mm)	8 GHz – 18 GHz	0.12 dB (0.27 dB)		
		10 MHz – 50 MHz	0.08 dB to 0.05 dB*	* linear with log(freq)	
		50 MHz – 1 GHz	0.05 dB		
		1 GHz – 40 GHz	0.05 dB to 0.18 dB*		
	Magnitude (-30 – -50 dB) (N-type)	9 kHz – 100 kHz	0.08 dB (0.14 dB)	At nom. 0 dBm RF power	
		100 kHz – 1500 MHz	0.08 dB (0.14 dB)		
		1500 MHz – 8 GHz	0.12 dB (0.18 dB)		
		8 GHz – 18 GHz	0.15 dB (0.30 dB)		
	(2.92 mm)	10 MHz – 50 MHz	0.5 dB to 0.15 dB*	* linear with log(freq)	
		50 MHz – 8 GHz	0.15 dB		
		8 GHz – 40 GHz	0.15 dB to 0.5 dB*		
	Magnitude (-50 – -70) dB (N-type)	9 kHz – 100 kHz	0.25 dB (0.37dB)	At nom. +10 dBm RF power (+5 dBm > 8 GHz)	
		100 kHz – 8 GHz	0.25 dB (0.31 dB)		
		8 GHz – 18 GHz	0.25 dB (0.4 dB)		
	(2.92mm)	10 MHz – 100 MHz	2.5 dB to 1.0 dB*	* linear with log(freq)	
		100 MHz – 8 GHz	1.0 dB		
		8 GHz – 40 GHz	1.0 dB to 2.5 dB*		
	Magnitude (-70 – -80) dB (N-type)	9 kHz – 100 kHz	0.7 dB (0.9 dB)	At nom. +10 dBm RF power (+5 dBm > 8 GHz)	
		100 kHz – 8 GHz	0.7 dB (0.8 dB)		

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		8 GHz – 18 GHz	0.7 dB (0.9 dB)		
	(2.92mm)	10 MHz – 100 MHz	6 dB to 1.2 dB*	* linear with log(freq)	
		100 MHz – 8 GHz	1.2 dB		
		8 GHz – 40 GHz	1.2 dB to 6 dB*		
	Magnitude (-80 – -90) dB (N-type)	30 kHz – 8 GHz	2.0 dB (2.1 dB)	At nom. +10 dBm RF power (+5 dBm > 8 GHz)	OS
		8 GHz – 18 GHz	2.0 dB (2.2 dB)		
	(2.92mm)	100 MHz – 3 GHz	2.0 dB		
		3 GHz – 18 GHz	2.0 dB to 8 dB*	* linear with log(freq)	
	Magnitude (-90 – -100) dB (N-type)	30 kHz – 18 GHz	5 dB (6 dB)	At nom. +10 dBm RF power (+5 dBm > 8GHz)	
	(2.92mm)	100 MHz – 3 GHz	5 dB		
		3 GHz – 8 GHz	5 dB to 8 dB*	* linear with log(freq)	
	Antenna Reflection coefficient				
	Magnitude 0 – 1.0	30 MHz – 700 MHz	$0.06 + 0.020 \cdot p + 0.008 \cdot p^2$	Nominal impedance 50 Ω at nominal -10 dBm RF power	
		700 MHz – 1500 MHz	$0.07 + 0.020 \cdot p + 0.013 \cdot p^2$		
		1500 MHz – 3000 MHz	$0.08 + 0.020 \cdot p + 0.013 \cdot p^2$		
RF 3 0	HIGH FREQUENCY POWER			1, 3)	WO
	Calibration Factors of Power meters (N-type)	9 kHz – 10 MHz	0.05 dB	At nom. 0 dBm RF power	
		10 MHz – 3 GHz	0.06 dB		
		3 GHz – 6 GHz	0.07 dB		
		6 GHz – 10 GHz	0.07 – 0.09 dB		
		10 GHz – 18 GHz	0.09 dB		

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
		10 MHz – 2 GHz	0.06 dB		
		2 GHz – 6 GHz	0.07 dB		
		6 GHz – 10 GHz	(0.07 – 0.10) dB		
		10 GHz – 18 GHz	0.10 dB		
(2.92mm)		10 MHz – 18 GHz	0.10 dB	2.92 mm At nom. 0 dBm RF power	
		18 GHz – 40 GHz	0.20 dB		
		10 MHz – 18 GHz	0.10 dB	At nom. -30 dBm RF power	
		18 GHz – 40 GHz	0.20 dB		
	Linearity of RF power				
0 - +20 dBm		50 MHz – 500 MHz	0.05 dB		
0 - +10 dBm		9 kHz – 10 MHz	0.13 dB		
		10 MHz – 3 GHz	0.05 dB		
		3 GHz – 6 GHz	0.08 dB		
0 – -10 dBm		9 kHz – 10 MHz	0.13 dB		
		10 MHz – 3 GHz	0.05 dB		
		3 GHz – 6 GHz	0.05 dB		
0 – -20 dBm		9 kHz – 10 MHz	0.26 dB		
		10 MHz – 3 GHz	0.05 dB		
		3 GHz – 6 GHz	0.08 dB		
0 – -30 dBm		9 kHz – 10 MHz	0.26 dB		
		10 MHz – 3 GHz	0.07 dB		
		3 GHz – 6 GHz	0.08 dB		
0 – -40 dBm		10 MHz – 6 GHz	0.09 dB		
0 – -50 dBm		10 MHz – 6 GHz 50 MHz	0.18 dB 0.10 dB		
0 – -60 dBm		10 MHz – 6 GHz 50 MHz	0.35 dB 0.20 dB		

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	Absolute power -60 to +20 dBm (N-Type)				
		9 kHz – 10 MHz	0.06 dB	At nom. 0 dBm RF power	
		10 MHz – 6 GHz	0.07 dB		
		6 GHz – 10 GHz	0.10 dB		
		10 GHz – 18 GHz	0.12 dB		
		10 MHz – 6 GHz	0.07 dB	At norm. -30 dBm RF Power	
		6 GHz – 10 GHz	0.10 dB		
		10 GHz – 18 GHz	0.14 dB		
(2.92 mm)		10 MHz – 30 MHz	0.35 dB	At nom. 0 dBm RF power	
		30 MHz – 18 GHz	0.15 dB		
		18 GHz – 40 GHz	0.25 dB		
		10 MHz – 30 MHz	0.35 dB		
		30 MHz – 18 GHz	0.15 dB	At norm. -30 dBm RF Power	
		18 GHz – 40 GHz	0.25 dB		
	Frequency response of power measuring devices (N-type)				
		9 kHz – 10 MHz	0.05 dB	At nom. 0 dBm RF power	
		10 MHz – 3 GHz	0.06 dB		
		3 GHz – 6 GHz	0.07 dB		
		6 GHz – 10 GHz	0.07 – 0.10 dB		
		10 GHz – 18 GHz	0.10 dB		
		10 MHz – 3 GHz	0.06 dB	At nom. -30 dBm RF power	

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
(2.92 mm)		3 GHz – 6 GHz	0.07 dB		
		6 GHz – 10 GHz	0.07 – 0.10 dB		
		10 GHz – 18 GHz	0.10 dB		
		10 MHz – 1 GHz	0.10 dB	At nom. 0 dBm RF power	
		1 GHz – 6 GHz	0.15 dB		
		6 GHz – 40 GHz	0.15 dB – 0.6 dB		
		10 MHz – 1 GHz	0.10 dB	At nom. -30 dBm RF power	
		1 GHz – 6 GHz	0.15 dB		
		6 GHz – 40 GHz	0.15 dB – 0.6 dB		
EMC detectors					
	Peak, Quasi Peak, Average, RMS Sine wave accuracy	9 kHz – 0.15 MHz	± 0.25 dB	Band A, Peak, QP, AVG, RMS	
		0.15 MHz – 30 MHz	± 0.25 dB	Band B, Peak, QP, AVG, RMS	
		30 MHz – 300 MHz	± 0.4 dB	Band C, Peak, QP, AVG, RMS	
		300 MHz-1000 MHz	± 0.4 dB	Band D, Peak, QP, AVG, RMS	
		1 GHz – 18 GHz	± 0.5 – 0.8 dB	Band E, Peak, AVG, RMS	
	Peak detector, Absolute accuracy	9 kHz – 0.15 MHz	± 0.5 dB	Band A	
		0.15 MHz – 15 MHz	± 0.5 dB	Band B	
		15 MHz – 30 MHz	± 0.6 dB	Band B	
		30 MHz – 300 MHz	± 0.6 dB	Band C	
		300 MHz – 300 MHz	± 0.6 dB	Band D	
		300MHz – 1000 MHz	± 0.9 dB	Band D	
	Peak detector, absolute calibration	1 GHz – 18 GHz	± 0.25 dB	Band E	
	Peak detector, variation with frequency	9 kHz – 1000 MHz	± 0.25 dB	Band A, B, C, D	
	Peak detector, variation with frequency	1 GHz – 18 GHz	± 0.30 dB	Band E	

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	Quasi Peak detector, Response to broadband signals Absolute Calibration	9 kHz – 0.15 MHz 0.15 MHz – 30 MHz 30 MHz – 300 MHz 300 MHz 301 MHz - 650 MHz 651 MHz - 1000 MHz	± 0.5 dB ± 0.5 dB ± 0.5 dB ± 0.5 dB ± 0.8 dB ± 0.9 dB	Band A Band B Band C Band D Band D Band D	
	Quasi Peak detector, variation to pulse freq	Single to 100 Hz Single to 1000 Hz Single – 1 Hz 2 Hz 10Hz – 1000 Hz Single – 1 Hz 2 Hz 10Hz – 1000 Hz	± 0.5 dB ± 0.5 dB ± (0.8 - 1.3) dB ± (0.6 - 1.0) dB ± (0.5 - 1.0) dB ± (1.3 - 1.8) dB ± (1.0 - 1.7) dB ± (0.5 - 0.9) dB	Band A Band B Band C Band C Band C Band D Band D Band D	
	AVG detector, Absolute accuracy	9 kHz – 0.15 MHz 0.15 MHz – 30 MHz 30 MHz – 300 MHz 300 MHz- 1000 MHz 1 GHz – 18 GHz	± 0.5 dB ± 0.5 dB ± 0.5 dB ± 0.5 dB ± (0.5 – 1.0) dB	Band A Band B Band C Band D Band E	
	AVG detector, variation with frequency	9 kHz – 0.15 MHz 0.15 MHz – 30 MHz 30 MHz – 300 MHz 300 MHz- 1000 MHz 1 GHz – 18 GHz	± 0.25 dB ± 0.25 dB ± 0.25 dB ± 0.25 dB ± (0,25 - 0,4) dB	Band A Band B Band C Band D Band E	
	AVG detector, Intermittent, unsteady, drifting narrow band	9 kHz – 18 GHz	± 0.25 dB	Band A, B, C, D, E	
	RMS detector, Absolute accuracy	9 kHz – 0.15 MHz 0.15 MHz – 30 MHz 30 MHz – 300 MHz 300 MHz- 1000 MHz 1 GHz – 18 GHz	± 0.5 dB ± 0.5 dB ± 0.5 dB ± 0.5 dB ± (0.6 – 1.2) dB	Band A Band B Band C Band D Band E	
	RMS detector, variation with frequency	9 kHz – 18 GHz	± 0.25 dB	Band A, B, C, D, E	
	RMS detector, Intermittent, unsteady, drifting narrow band	9 kHz – 18 GHz	± 0.25 dB	Band A, B, C, D, E	
	Bandwidth of RBW filters				
	1 Hz – 10 MHz	9 kHz – 2.4 GHz	0.8 + 0.02·BW		

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	1 Hz – 10 MHz	10 MHz – 18 GHz	0.08 + 0.02 · BW		
RF 5 0	ELECTRICAL / MAGNETIC FIELD QUANTITIES /EMC				WO
	Electrical Field Strength (1 – 200) V/m	9 kHz – 30 MHz	(0.5 – 0.6) dB	Temcell 4)	
		30 MHz – 75 MHz	(0.6 – 1.3) dB		
		75 MHz – 200 MHz	1.3 dB		
	Electrical Field Strength (1 – 100) V/m	200 MHz – 1 GHz	1.2 dB	Anechoic Chamber	
		1 GHz – 8 GHz	1.1 dB		
		8 GHz – 12 GHz	1.2 dB		
		12 GHz – 15 GHz	(1.2 - 1.5) dB		
		15 GHz – 18 GHz	1.5 dB		
		18 GHz – 40 GHz	2.4 dB		
	Antenna factor				
	ANSI C63.5 CISPR 16-1-6	30 MHz – 5 GHz	0.8 dB	OATS, Standard Site method 5)	
	ANSI C63.5 CISPR 16-1-6	30 MHz – 1 GHz	0.8 dB	OATS, Reference antenna method 5)	
	Antenna symmetry - Dipole - Biconical - Hybrid	30 MHz – 1 GHz	0.25 dB	OATS ANSI C63.5 CISPR 16-1-4 5)	
	Quasi Free Space	20 MHz – 100 MHz	0.9 dB	Free Space Environment, Three Antenna Method 5)	
		100 MHz – 200 MHz	0.8 dB		
		200 MHz – 5 GHz	0.7 dB		

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
		1 GHz – 10 GHz	1.4 dB		
		10 GHz – 12 GHz	(1.4 – 2.1) dB		
		12 GHz – 18 GHz	2.1 dB		
SAE ARP 958		20 MHz – 100 MHz	0.9 dB		
		100 MHz – 200 MHz	0.8 dB		
		200 MHz – 5 GHz	0.7 dB		
Shielding Effectiveness				According to EN50147 and Mil Std 285 5)	OS
Magnetic Field 100 dB		10 kHz – 30 MHz	5 dB		
Electric Field 120 – 150 dB		10 MHz – 300 MHz	5 dB		
Plane wave 110 – 140 dB		30 MHz – 1 GHz	5 dB		
Plane wave 110 – 140 dB		1 GHz – 18 GHz	6 dB		
Normalized Site Attenuation				According to CISPR 16-1-4 using broadband antennae Horizontal and vertical polarization, distance between 3 m and 30 m 5)	OS
NSA		30 MHz – 1000 MHz	1.6 dB		
Site Voltage Standing Wave Ratio				According to CISPR 16-1-4 using reciprocal method 4)	OS
S _{VSWR}		1 GHz – 18 GHz	2.0 dB		
Field Uniformity				According to IEC 61000-4-3 4)	OS
Forward Power		80 MHz – 18 GHz	1.3 dB		
Field Uniformity		80 MHz – 18 GHz	1.7 dB		

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	Surge generators and coupling/decoupling networks waveform surge voltage			According to EN 61000-4-5 1.2/50 µs pulse 10/700 µs pulse	WO, OS
	0 V – 550 V		6.7 V + 0.022·U 6.7 V + 0.025·U	Coupling/decoupling networks for AC/DC power supply circuits only in combination with appropriate surge generator	WO OS
	0 V – 1.1 kV		13.4 V + 0.022·U 13.4 V + 0.025·U		WO OS
	0 V – 2.8 kV		33.5 V + 0.022·U 33.5 V + 0.025·U		WO OS
	0 V – 5.5 kV		67 V + 0.022·U 67 V + 0.025·U		WO OS
	Waveform surge current				WO, OS
	Current amplitude			1.2/50 µs pulse 10/700 µs pulse	
	0 – 15 A		0.18 A + 0.022·/ 0.18 A + 0.029·/		WO OS
	0 – 30 A		0.36 A + 0.022·/ 0.36 A + 0.029·/		WO OS
	0 – 60 A		0.72 A + 0.022·/ 0.72 A + 0.029·/		WO OS
	0 – 150 A		1.8 A + 0.022·/ 1.8 A + 0.029·/	Measurements at coupling/decoupling network input, output; coupling modes line to neutral, line to earth and neutral to earth	WO OS
	0 – 300 A		3.6 A + 0.022·/ 3.6 A + 0.029·/		WO OS
	0 – 600 A		7.2 A + 0.022·/ 7.2 A + 0.029·/		WO OS
	0 – 1500 A		18 A + 0.022·/ 18 A + 0.029·/		WO OS
	0 – 3000 A		36 A + 0.022·/ 36 A + 0.029·/		WO OS

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	Front time Voltage mode				WO, OS
	Pulse 1.2/50 µs	0.65 µs – 1.75 µs	0.08 µs	4)	
	Pulse 10/700 µs	5.5 µs – 15.5 µs	0.5 µs		
	Front time Current mode				WO, OS
	Pulse 1.2/50 µs	6.4 µs – 9.6 µs 1.4 µs – 3.6 µs	0.18 µs 0.07 µs	line – line line – PE	
	Pulse 10/700 µs	3.5 µs – 6.5 µs	0.27 µs		
	Duration Voltage Mode			4)	WO, OS
	Pulse 1.2/50 µs	35 µs – 65 µs	1.0 µs		
	Pulse 10/700 µs	490 µs – 910 µs	14 µs		
	Duration time Current Mode			4)	WO, OS
	Pulse 1.2/50 µs	11 µs – 21 µs	0.23 µs	Current, line to line	
		14 µs – 36 µs	0.23 µs	Current, line to earth	
	Pulse 10/700 µs	210 µs – 390 µs	6 µs		
	EFT/burst generators waveform (im)pulse. voltage into 50 Ω			According to EN 61000-4-4	WO, OS
	0 V – 150 V		2.0 V + 0.022·U 2.0 V + 0.025·U	4)	WO OS
	0 – 300 V		4.0 V + 0.022·U 4.0 V + 0.025·U	4)	WO OS
	0 – 600 V		8.0 V + 0.022·U 8.0 V + 0.025·U	4)	WO OS
	0 – 1.5 kV		20 V + 0.022·U 20 V + 0.025·U	4)	WO OS

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	0 – 3 kV		37 V + 0.022·U 37 V + 0.025·U	4)	WO OS
	EFT/burst generators Waveform pulse voltage into 1 kΩ				WO, OS
	0 V – 500 V		6 V + 0.045·U 6 V + 0.048·U	4)	WO OS
	0 V – 1 kV		12 V + 0.045·U 12 V + 0.048·U	4)	WO OS
	0 V – 2 kV		24 V + 0.045·U 24 V + 0.048·U	4)	WO OS
	0 V – 5 kV		60 V + 0.045·U 60 V + 0.048·U	4)	WO OS
	Rise time (10 % – 90 %) 3 ns – 7 ns		0.3 ns	4)	WO, OS
	Pulse duration time (50 % – 50 %) 30 ns – 70 ns		2.0 ns	4)	WO, OS
	Repetition time			4)	
	5 µs – 15 µs		0.15 µs		
	150 µs – 600 µs		2.5 µs		
	Burst duration			4)	WO, OS
	10 ms – 20 ms		0.5 µs + 0.0005·t		
	Burst period			4)	WO, OS
	200 ms – 400 ms		500 µs		

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	ESD Simulators Waveform discharge current				
	First peak current 3 – 10 A 6 – 20 A 15 – 50 A		7 % 7 % 7 %	Standard and Networks: 150 pF / 330 Ω IEC 61000-4-2	
	Rise time 0.5 – 1.2 ns		15 %		
	Current at t1 and t2 1 – 10 A 2 – 20 A 5 – 50 A		7 % 7 % 7 %		
	ESD Simulators Waveform discharge current				
	First peak current 3 – 10 A 6 – 20 A 15 – 50 A		0.08 + 0.032·/ 0.16 + 0.032·/ 0.4 + 0.032·/	Standard and networks: ISO 10605 All networks	
	Rise time 0.5 – 1.2 ns		0.08 ns		
	Current at t1 and t2 1 – 10 A 2 – 20 A 5 – 50 A		0.08 + 0.032·/ 0.16 + 0.032·/ 0.4 + 0.032·/	Standard and networks: ISO 10605 150 pF / 330 Ω 330 pF / 330 Ω	
	Current at t1 and t2 0.1 – 1.0 A 0.2 – 2.0 A 0.5 – 5.0 A		0.008 + 0.023·/ 0.02 + 0.023·/ 0.04 + 0.023·/	Standard and networks: ISO 10605 150 pF / 2000 Ω 330 pF / 2000 Ω	
TF 0 0	TIME AND FREQUENCY				
TF 2 1	Frequency				WO
	10 mHz – 2.7 GHz		(8·10 ⁻¹⁰ /τ + 1.8 ·10 ⁻¹⁰)·f	Measuring, 10 ms ≤ τ ≤ 400 s	

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	10 mHz – 10 Hz		$3 \cdot 10^{-5} \cdot f$	Generating	
	10 Hz – 100 kHz		$(1 \cdot 10^{-5}/\tau) \cdot f$	Generating, 10 ms ≤ τ ≤ 400 s	
	100 kHz – 2.16 GHz		$(1 \cdot 10^{-9}/\tau + 1.8 \cdot 10^{-10}) \cdot f$	Generating, 10 ms ≤ τ ≤ 400 s	
TF 2 2	Time interval				WO
	0.5 ns – 10 μs		$(1.5 \cdot 10^{-4}) \cdot t + 15 \text{ ps}$	Generating	
	10 μs – 1000 s		$(3 \cdot 10^{-5}) \cdot t$		

The calibrations are carried out at an ambient temperature of $(23 \pm 2)^\circ\text{C}$ and a relative humidity of $(50 \pm 10)\%$, with an exception for calibrations marked 4 or 5.

1. $|\rho_{\text{dut}}| < 0.02$
2. $|\rho_{\text{dut}}| < 0.2$
3. All calibrations are based on equipment using N-type connectors, unless otherwise noted.
4. The calibrations are carried out at ambient conditions within $(23 \pm 7)^\circ\text{C}$ and $(50 \pm 20)\%$.
5. The calibrations are carried out at ambient conditions within $(20 \pm 15)^\circ\text{C}$ and $(50 \pm 40)\%$.