Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **K 013**

of **Fluke Nederland B.V.**
Standaard Laboratorium

This annex is valid from: **22-08-2019** to **01-10-2023** Replaces annex dated: **06-06-2018**

Location(s) where activities are performed under accreditation

Head Office

Science Park Eindhoven 5108, Gebouw 2
5692 EC
Son en Breugel
The Netherlands

Location	Abbreviation/ location code
Science Park Eindhoven 5108, Gebouw 2 5692 EC Son en Breugel The Netherlands	LAB 2
Science Park Eindhoven 5025, Gebouw 3 5692 EB Son en Breugel The Netherlands	LAB 3
On-site at the customer	OS

HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
LF 0 0	DC/LF Quantities				
LF 1 0	DC Voltage			measuring and generating	
	10 V		$5 \cdot 10^{-7} \cdot U$	zenerreferences	LAB 2
	1 V and 1.018 V		$2.3 \cdot 10^{-6} \cdot U$	zenerreferences	LAB 2
	0 μV to 10 μV		0.3 μV		LAB 2
	10 μV to 200 mV		$3 \cdot 10^{-6} \cdot U$ + 0.2 μV		LAB 2
	200 mV to 1 V		$3 \cdot 10^{-6} \cdot U$		LAB 2

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 1 0	1 V to 2 V		$2 \cdot 10^{-6} \cdot U$		LAB 2
	2 V to 10 V		$1 \cdot 10^{-6} \cdot U$		LAB 2
	10 V to 1000 V		$2 \cdot 10^{-6} \cdot U$		LAB 2
	1000 V to 1100 V		$4 \cdot 10^{-6} \cdot U$		LAB 2
LF 2 0	DC Current			measuring and generating	
	1 μA to 10 μA		$3 \cdot 10^{-5} \cdot I$		LAB 2
	10 μA to 20 A		$2 \cdot 10^{-5} \cdot I$		LAB 2
LF 3 0	AC Voltage			measuring and generating	LAB 2
	100 mV to 220 mV	10 Hz to 20 Hz	$3 \cdot 10^{-4} \cdot U$		
		20 Hz to 40 Hz	$5 \cdot 10^{-5} \cdot U$		
		40 Hz to 20 kHz	$5 \cdot 10^{-5} \cdot U$		
		20 kHz to 50 kHz	$5 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$6 \cdot 10^{-5} \cdot U$		
		100 kHz to 200 kHz	$2 \cdot 10^{-4} \cdot U$		
		200 kHz to 500 kHz	$4 \cdot 10^{-4} \cdot U$		
		500 kHz to 1 MHz	$7 \cdot 10^{-4} \cdot U$		
	220 mV to 2.2 V	10 Hz to 20 Hz	$5 \cdot 10^{-5} \cdot U$		
		20 Hz to 40 Hz	$5 \cdot 10^{-5} \cdot U$		
		40 Hz to 20 kHz	$5 \cdot 10^{-5} \cdot U$		
		20 kHz to 50 kHz	$4 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$5 \cdot 10^{-5} \cdot U$		
		100 kHz to 200 kHz	$2 \cdot 10^{-4} \cdot U$		
		200 kHz to 500 kHz	$4 \cdot 10^{-4} \cdot U$		
		500 kHz to 1 MHz	$7 \cdot 10^{-4} \cdot U$		
	2.2 V to 22 V	10 Hz to 20 Hz	$5 \cdot 10^{-5} \cdot U$		
		20 Hz to 40 Hz	$4 \cdot 10^{-5} \cdot U$		

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
LF 3 0	2.2 V to 22 V	40 Hz to 20 kHz	$4 \cdot 10^{-5} \cdot U$		LAB 2
		20 kHz to 50 kHz	$4 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$5 \cdot 10^{-5} \cdot U$		
		100 kHz to 200 kHz	$2 \cdot 10^{-4} \cdot U$		
		200 kHz to 500 kHz	$4 \cdot 10^{-4} \cdot U$		
		500 kHz to 1 MHz	$8 \cdot 10^{-4} \cdot U$		
	22 V to 220 V	10 Hz to 20 Hz	$6 \cdot 10^{-5} \cdot U$		
		20 Hz to 40 Hz	$5 \cdot 10^{-5} \cdot U$		
		40 Hz to 20 kHz	$5 \cdot 10^{-5} \cdot U$		
		20 kHz to 50 kHz	$5 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$2 \cdot 10^{-4} \cdot U$		
	220 V to 1000 V	10 Hz to 20 Hz	$5 \cdot 10^{-5} \cdot U$		
		20 Hz to 40 Hz	$5 \cdot 10^{-5} \cdot U$		
		40 Hz to 20 kHz	$5 \cdot 10^{-5} \cdot U$		
		20 kHz to 50 kHz	$7 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$4 \cdot 10^{-4} \cdot U$		
LF 3 3	Pulse Amplitude				LAB 2
	1 mV to 25 mV	10 Hz to 10 kHz	$5 \cdot 10^{-3} \cdot U$	measuring	
	25 mV to 110 mV	10 Hz to 10 kHz	$2.6 \cdot 10^{-4} \cdot U$		
	110 mV to 2.2 V	10 Hz to 10 kHz	$2.6 \cdot 10^{-4} \cdot U$		
	2.2 V to 11 V	10 Hz to 10 kHz	$2.6 \cdot 10^{-4} \cdot U$		
	11 V to 130 V	10 Hz to 10 kHz	$2.6 \cdot 10^{-4} \cdot U$		
	6 mV to 25 mV	10 Hz to 10 kHz	$1 \cdot 10^{-2} \cdot U$	generating	
	25 mV to 110 mV	10 Hz to 10 kHz	$5 \cdot 10^{-3} \cdot U$		
	110 mV to 2.2 V	10 Hz to 10 kHz	$5 \cdot 10^{-3} \cdot U$		
	2.2 V to 11 V	10 Hz to 10 kHz	$5 \cdot 10^{-3} \cdot U$		
	11 V to 130 V	10 Hz to 10 kHz	$5 \cdot 10^{-3} \cdot U$		

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
LF 3 4	AC/DC Transfer			measuring and generating	LAB 2
	0.5 V to 50 V	40 Hz to 1 kHz	$5.6 \cdot 10^{-5} \cdot U$		
		1 kHz to 20 kHz	$5.1 \cdot 10^{-5} \cdot U$		
		20 kHz to 100 kHz	$6.1 \cdot 10^{-5} \cdot U$		
		100 kHz to 500 kHz	$2.5 \cdot 10^{-4} \cdot U$		
	0.5 V to 10 V	500 kHz to 1 MHz	$4.2 \cdot 10^{-4} \cdot U$		
	50 V to 100 V	40 Hz to 1 kHz	$4.5 \cdot 10^{-5} \cdot U$		
		1 kHz to 20 kHz	$4.5 \cdot 10^{-5} \cdot U$		
		20 kHz to 50 kHz	$5.1 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$5.6 \cdot 10^{-5} \cdot U$		
	100 V to 500 V	40 Hz to 1 kHz	$6.2 \cdot 10^{-5} \cdot U$		
		1 kHz to 20 kHz	$5.8 \cdot 10^{-5} \cdot U$		
		20 kHz to 50 kHz	$9.2 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$2.4 \cdot 10^{-4} \cdot U$		
	500 V to 1000 V	40 Hz to 20 kHz	$6.4 \cdot 10^{-5} \cdot U$		
		20 kHz to 50 kHz	$9.6 \cdot 10^{-5} \cdot U$		
		50 kHz to 100 kHz	$2.4 \cdot 10^{-4} \cdot U$		
LF 4 0	AC Current			measuring and generating	LAB 2
	100 µA to 1 mA	10 Hz to 1 kHz	$3.2 \cdot 10^{-4} \cdot I$		
		1 kHz to 5 kHz	$2.6 \cdot 10^{-4} \cdot I$		
		5 kHz to 10 kHz	$6.5 \cdot 10^{-4} \cdot I$		
		10 kHz to 20 kHz	$1.2 \cdot 10^{-3} \cdot I$	measuring only	
	1 mA to 10 mA	10 Hz to 1 kHz	$2.3 \cdot 10^{-4} \cdot I$		
		1 kHz to 5 kHz	$1.7 \cdot 10^{-4} \cdot I$		
		5 kHz to 10 kHz	$4.3 \cdot 10^{-4} \cdot I$		
		10 kHz to 20 kHz	$6.7 \cdot 10^{-4} \cdot I$	measuring only	

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
LF 4 0	10 mA to 1 A	10 Hz to 1 kHz	$2.4 \cdot 10^{-4} \cdot I$		LAB 2
		1 kHz to 5 kHz	$2.1 \cdot 10^{-4} \cdot I$		
		5 kHz to 10 kHz	$4.9 \cdot 10^{-4} \cdot I$		
		10 kHz to 20 kHz	$8.2 \cdot 10^{-4} \cdot I$	measuring only	
	1 A to 5 A	10 Hz to 1 kHz	$2.4 \cdot 10^{-4} \cdot I$		
		1 kHz to 5 kHz	$2.8 \cdot 10^{-4} \cdot I$		
		5 kHz to 10 kHz	$7.4 \cdot 10^{-4} \cdot I$		
		10 kHz to 20 kHz	$1.4 \cdot 10^{-3} \cdot I$	measuring only	
	5 A to 20 A	10 Hz to 1 kHz	$3.3 \cdot 10^{-4} \cdot I$		
		1 kHz to 5 kHz	$3.8 \cdot 10^{-4} \cdot I$		
		5 kHz to 10 kHz	$7.8 \cdot 10^{-4} \cdot I$		
		10 kHz to 20 kHz	$1.4 \cdot 10^{-3} \cdot I$	measuring only	
LF 6 2	DC Resistance			measuring and generating	LAB 2
	1 mΩ		$3 \cdot 10^{-5} \cdot R$		
	10 mΩ		$2 \cdot 10^{-5} \cdot R$		
	100 mΩ		$1 \cdot 10^{-5} \cdot R$		
	1 Ω		$3 \cdot 10^{-6} \cdot R$		
	10 Ω		$3 \cdot 10^{-6} \cdot R$		
	100 Ω		$3 \cdot 10^{-6} \cdot R$		
	1 kΩ		$3 \cdot 10^{-6} \cdot R$		
	10 kΩ		$2 \cdot 10^{-6} \cdot R$		
	100 kΩ		$3 \cdot 10^{-6} \cdot R$		
	1 MΩ		$3 \cdot 10^{-6} \cdot R$		
	10 MΩ		$5 \cdot 10^{-6} \cdot R$		
	100 MΩ		$2 \cdot 10^{-5} \cdot R$		
	1 GΩ		$6 \cdot 10^{-4} \cdot R$		
	1 mΩ to 10 mΩ		$9 \cdot 10^{-5} \cdot R$		

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
LF 6 2	10 mΩ to 100 mΩ		$3 \cdot 10^{-5} \cdot R$		LAB 2
	100 mΩ to 1 Ω		$2 \cdot 10^{-5} \cdot R$		
	1 Ω to 10 MΩ		$5 \cdot 10^{-6} \cdot R$		
	10 MΩ to 100 MΩ		$2 \cdot 10^{-5} \cdot R$		
	100 MΩ to 1 GΩ		$6 \cdot 10^{-4} \cdot R$		
LF 6 5	LF Capacitance			measuring and generating	LAB 2
	10 pF	1 kHz to 10 kHz	$2 \cdot 10^{-5} \cdot C$		
	100 pF	1 kHz to 10 kHz	$2 \cdot 10^{-5} \cdot C$		
	1 pF to 50 pF	1 kHz to 10 kHz	$2 \cdot 10^{-4} \cdot C$		
	50 pF to 100 pF	1 kHz to 10 kHz	$4 \cdot 10^{-5} \cdot C$		
	100 pF to 1 nF	1 kHz to 5 kHz	$2 \cdot 10^{-5} \cdot C$		
	1 nF to 1 µF	1 kHz	$2 \cdot 10^{-4} \cdot C$		
	1 µF to 10 µF	100 Hz	$3 \cdot 10^{-4} \cdot C$		
	200 µF to 500 µF	DCV	$1.2 \cdot 10^{-3} \cdot C$		
	500 µF to 110 mF	DCV	$1 \cdot 10^{-3} \cdot C$		
RF 0 0	HIGH FREQUENCY QUANTITIES				
RF 1 0	CW Flatness				LAB 2
	5 mV_{pp} to 200 mV_{pp}	50 kHz to 1100 MHz	$3.5 \cdot 10^{-2}$ related to 50 kHz/50 Ω	measuring	
	200 mV_{pp} to 6 V_{pp}	50 kHz to 1100 MHz	$3.5 \cdot 10^{-2}$ elated to 50 kHz/50 Ω	measuring	
	5 mV_{pp} to 20 mV_{pp}	50 kHz to 1100 MHz	$11 \cdot 10^{-2}$ related to 50 kHz/50 Ω	generating VSWR scope ≤ 1.3	
	20 mV_{pp} to 6 V_{pp}	50 kHz to 1100 MHz	$10 \cdot 10^{-2}$ related to 50 kHz/50 Ω	generating VSWR scope ≤ 1.3	

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
TF 0 0	TIME & FREQUENCY				
TF 2 1	Frequency			measuring and generating	LAB 2
	10 MHz		$6 \cdot 10^{-11} \cdot f$		
	10 mHz to 1 MHz		$1 \cdot 10^{-10} \cdot f + T_e$	1)	
	1 MHz to 300 MHz		$1 \cdot 10^{-10} \cdot f$		
	300 MHz to 1.1 GHz		$6 \cdot 10^{-9} \cdot f$	2)	
TF 2 2	Time Interval				LAB 2
	1 μs to 10 s		$5 \cdot 10^{-10} \cdot t$ + T.E.	5) measuring only	
	10 s to 10^5 s		$5 \cdot 10^{-10} \cdot t$ + 10 ns	measuring only	
TF 2 3	Phase Angle				LAB 2
	0 ° to 180 °	10 Hz to 50 Hz	0.05 °	at equal input voltages 100 mV < U_i < 300 V generate up to 120 V	
		50 Hz to 1 kHz	0.08 °		
		1 kHz to 5 kHz	0.18 °		
		5 kHz to 10 kHz	0.35 °		
		10 kHz to 30 kHz	0.75 °		
		50 Hz	0.10 °	unequal input voltages 100 mV < U_i < 300 V ratio 1:100	
		50 Hz to 1 kHz	0.25 °		
		1 kHz to 5 kHz	0.40 °		
		5 kHz to 10 kHz	1.0 °		
		10 kHz to 30 kHz	1.8 °		

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HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
TF 2 4	Rise time				LAB 2
	70 ps to 1000 ps	pulse repeat ≤1 MHz	20 ps	180 mV_{pp} to 300 mV_{pp} in 50 Ω measuring only	

HCS code	Measured quantity, Instrument, Measure	Range	CMC[2]	Remarks	Location
PV 0 0	Pressure				
PV 1 1	Absolute pressure	10 kPa to 60 kPa	12 Pa	nitrogen, measuring and generating	LAB 3
		60 kPa to 700 kPa	$3.1 \cdot 10^{-5} \cdot p + 10$ Pa		
		700 kPa to 10 MPa	$4.2 \cdot 10^{-5} \cdot p + 95$ Pa		
PV 1 2	Gauge pressure	0 kPa to 15 kPa	$2.5 \cdot 10^{-5} \cdot p_e + 0.7$ Pa	nitrogen, measuring and generating	LAB 3
		15 kPa to 700 kPa	$3.5 \cdot 10^{-5} \cdot p_e + 10.3$ Pa		
		700 kPa to 10 MPa	$4.2 \cdot 10^{-5} \cdot p_e + 95$ Pa		
PV 3 1	Negative Gauge pressure	-90 kPa to -15 kPa	$3.5 \cdot 10^{-5} \cdot p_e + 6.1$ Pa	nitrogen, measuring and generating	LAB 3
		-15 kPa to 0 kPa	$3.5 \cdot 10^{-5} \cdot p_e + 0.7$ Pa		
TQ 0 0	Torque	0.45 to 5.6 Nm	$2 \cdot 10^{-2} \cdot M + 0.069$ Nm	Setting Torque Tools (wrenches and drivers)	LAB 2
		5.6 to 41 Nm	$1.5 \cdot 10^{-2} \cdot M + 0.53$ Nm		
		41 to 113 Nm	$7 \cdot 10^{-3} \cdot M + 0.86$ Nm		

[2] 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".

HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
		113 to 339 Nm	$6 \cdot 10^{-3} \cdot M + 1.06$ Nm	Setting Torque Tools (wrenches and drivers)	LAB 2
TE 0 0	TEMPERATURE, HUMIDITY, THERMOPHYSICAL PROPERTIES				
TE 1 0	Resistance thermometers			also for indicators and recorder with resistance thermometers	
TE 1 0		5 °C to 15 °C	0.11 °C	measurements in climate chamber	LAB 2
		15 °C to 24 °C	0.045 °C	measurements in climate chamber	LAB 2
		24 °C to 65 °C	0.045 °C to 0.17 °C	measurements in climate chamber	LAB 2
		0.01 °C	0.0059 °C	triple point of water	LAB 2
		29.7646 °C	0.0068 °C	fixed point gallium	LAB 2
		419.527 °C	0.010 °C	fixed point zinc	LAB 2
		660.323 °C	0.014 °C	fixed point aluminium	LAB 2
		-95 °C to -80 °C	0.025 °C		LAB 2
		-80 °C to 125 °C	0.085 °C		OS
		-80 °C to 248 °C	0.014 °C		LAB 2
		248 °C to 500 °C	0.021 °C		LAB 2
		500 °C to 660 °C	0.053 °C		LAB 2
TE 3 0	Thermocouples			also for indicators and recorders with thermocouples	
		0 °C to 26 °C	0.022 °C	thermocouple Type-E	LAB 2
		-30 °C to 200 °C	0.16 °C		OS
		-95 °C to 660 °C	0.10 °C		LAB 2
		660 °C to 1000 °C	0.80 °C		LAB 2
		35 °C to 500 °C	0.5 °C to 1.8 °C	surface thermometers and surface calibrators	LAB 2

HCS code	Measured quantity, Range	Frequency	CMC[1]	Remarks	Location
TE 4 2	Liquid-in-Glass thermometer				LAB 2
		-20 °C to 60 °C	0.026 °C		
		60 °C to 205 °C	0.039 °C		
TE 6 2	Radiation (infrared)			pyrometers and black body sources	LAB 2
		-35 °C to -15 °C	0.22 °C		
		-15 °C to 120 °C	0.19 °C		
		120 °C to 500 °C	0.19 to 0.47 °C		
		500 °C to 550 °C	0.51 °C		
		550 °C to 1000 °C	3.5 °C		
TE 9 0	Simulators/Display units				
		-200 °C to 850 °C	0.006 °C to 0.009 °C	3) based on Pt100	LAB 2 + OS
		0 °C to 26 °C	0.025 °C	4) thermocouple type E	LAB 2
		-250 °C to -200 °C	0.38 °C	4)	LAB 2 + OS
		-200 °C to -100 °C	0.25 °C	4)	LAB 2 + OS
		-100 °C to -25 °C	0.14 °C	4)	LAB 2 + OS
		-25 °C to 120 °C	0.12 °C	4)	LAB 2 + OS
		120 °C to 1000 °C	0.19 °C	4)	LAB 2 + OS
		1000 °C to 1372 °C	0.30 °C	4)	LAB 2 + OS
		1372 °C to 1767 °C	0.34 °C	4)	LAB 2 + OS
TE 10 0	Calibration baths and furnaces				
		-95 °C to 660 °C	0.0003 °C	only stability uncertainty, not valid for accuracy uncertainty	LAB 2 + OS
		-95 °C to 140 °C	0.033 °C	< -80 °C only dry well	LAB 2 + OS

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TE 10 0	Calibration baths and furnaces	140 °C to 660 °C	0.033 °C to 0.053 °C	liquid bath ≤ 500 °C	LAB 2 + OS
		660 °C to 1000 °C	0.56 °C	only for furnaces	LAB 2
		1000 °C to 1200 °C	2.2 °C	only for furnaces	LAB 2
RH 0 0	Relative Humidity				LAB 2
		10 % rh to 70 % rh	0.37 % rh	15 °C to 50 °C	
		70 % rh to 95 % rh	0.46 % rh	15 °C to 50 °C	

Remarks:

- Calibrations inside the pressure laboratory are carried out at an ambient temperature of nominal (20 ± 2) °C, with a relative humidity of nominal (45 ± 20) %rh.
- Calibrations inside the electrical laboratory are carried out at an ambient temperature of nominal (23 ± 1) °C, with a relative humidity of nominal (45 ± 10) %rh.
- Temperature calibrations are carried out at an ambient temperature of nominal (23 ± 3) °C, with a relative humidity of nominal (45 ± 20) %rh.
- The calibrations outside the electrical laboratory are carried out at an ambient temperature of nominal (23 ± 5) °C, with a relative humidity of nominal (45 ± 20) %.

1) T_e = Trigger error for sine wave signals = $(4/f)\cdot 10^{-5}\cdot f$ (f = measured frequency).
2) Generate at T_a = (23 ± 3) °C.
3) Resistance Thermometers based on a Pt100. Others e.g. thermistors which actually measure resistance, see best measurement capabilities for electricity.
4) Thermocouple with internal reference junction compensation. Without, or with switched off reference junction compensation, which actually measures voltage, see best measurement capabilities for electricity.
5) T.E. = trigger error related to number of 10 MHz pulses counting during start/stop.