

Annex to declaration of accreditation (scope of accreditation)  
 Normative document: EN ISO/IEC 17025:2005  
 Registration number: **K 013**

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

**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
On-site at the customer	OS

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	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
	1 V and 1.018 V		$2.3 \cdot 10^{-6} \cdot U$	zenerreferences	LAB
	0 $\mu$ V to 10 $\mu$ V		0.3 $\mu$ V		LAB
	10 $\mu$ V to 200 mV		$3 \cdot 10^{-6} \cdot U + 0.2 \mu$ V		LAB
	200 mV to 1 V		$3 \cdot 10^{-6} \cdot U$		LAB
	1 V to 2 V		$2 \cdot 10^{-6} \cdot U$		LAB
	2 V to 10 V		$1 \cdot 10^{-6} \cdot U$		LAB

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

J.A.W.M. de Haas  
 Director of Operations

<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".

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
LF 1 0	10 V to 1000 V		$2 \cdot 10^{-6} \cdot U$		LAB
	1000 V to 1100 V		$4 \cdot 10^{-6} \cdot U$		LAB
	9 V to 16 V		3.4 mV		OS
	295 V to 400 V		70 mV		OS
LF 2 0	DC Current			measuring and generating	
	1 $\mu$ A to 10 $\mu$ A		$3 \cdot 10^{-5} \cdot I$		LAB
	10 $\mu$ A to 20 A		$2 \cdot 10^{-5} \cdot I$		LAB
	0,5 A to 5 A		2.5 mA		OS
LF 3 0	AC Voltage			measuring and generating	LAB
	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	$5 \cdot 10^{-5} \cdot U$			

Annex to declaration of accreditation (scope of accreditation)  
 Normative document: EN ISO/IEC 17025:2005  
 Registration number: **K 013**

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location	
LF 3 0	2.2 V to 22 V	20 Hz to 40 Hz	$4 \cdot 10^{-5} \cdot U$		LAB	
		40 Hz to 20 kHz	$4 \cdot 10^{-5} \cdot U$			
		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	$8 \cdot 10^{-4} \cdot U$			
	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	$5 \cdot 10^{-5} \cdot U$					
LF 3 3	Pulse Amplitude				LAB	
		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	$5 \cdot 10^{-3} \cdot U$		

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
LF 3 3	2.2 V to 11 V	10 Hz to 10 kHz	$5 \cdot 10^{-3} \cdot U$		LAB
	11 V to 130 V	10 Hz to 10 kHz	$5 \cdot 10^{-3} \cdot U$		
LF 3 4	AC/DC Transfer			measuring and generating	LAB
	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
	100 $\mu$ A 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	$2.3 \cdot 10^{-4} \cdot I$		

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
LF 4 0	1 mA to 10 mA	1 kHz to 5 kHz	$1.7 \cdot 10^{-4} \cdot I$		LAB
		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	
	10 mA to 1 A	10 Hz to 1 kHz	$2.4 \cdot 10^{-4} \cdot I$		
		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	
		10 Hz to 1 kHz	$2.4 \cdot 10^{-4} \cdot I$		
		1 kHz to 5 kHz	$2.8 \cdot 10^{-4} \cdot I$		
	1 A to 5 A	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	
		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
		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	$5 \cdot 10^{-6} \cdot R$		

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
LF 6 2	100 MΩ		$2 \cdot 10^{-5} \cdot R$		LAB
	1 GΩ		$6 \cdot 10^{-4} \cdot R$		
	1 mΩ to 10 mΩ		$9 \cdot 10^{-5} \cdot R$		
	10 mΩ to 100 mΩ		$3 \cdot 10^{-5} \cdot R$		
	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
	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
	5 mV <sub>pp</sub> to 200 mV <sub>pp</sub>	50 kHz to 1100 MHz	$3.5 \cdot 10^{-2}$ related to 50 kHz/50 Ω	measuring	

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
RF 1 0	200 mV <sub>pp</sub> to 6 V <sub>pp</sub>	50 kHz to 1100 MHz	$3.5 \cdot 10^{-2}$ related to 50 kHz/50 Ω	measuring	LAB
	5 mV <sub>pp</sub> to 20 mV <sub>pp</sub>	50 kHz to 1100 MHz	$11 \cdot 10^{-2}$ related to 50 kHz/50 Ω	generating VSWR scope ≤ 1.3	
	20 mV <sub>pp</sub> to 6 V <sub>pp</sub>	50 kHz to 1100 MHz	$10 \cdot 10^{-2}$ related to 50 kHz/50 Ω	generating VSWR scope ≤ 1.3	
TF 0 0	TIME & FREQUENCY				
TF 2 1	Frequency			measuring and generating	LAB
	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
	1 μs to 10 s		$5 \cdot 10^{-10} \cdot t + T.E.$	5) measuring only	
	10 s to 10 <sup>5</sup> s		$5 \cdot 10^{-10} \cdot t + 10 \text{ ns}$	measuring only	
TF 2 3	Phase Angle				LAB
	0 ° to 180 °	10 Hz to 50 Hz	0.05 °	at equal input voltages 100 mV < U <sub>i</sub> < 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 °		

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Range	Frequency	CMC <sup>1</sup>	Remarks	Location
TF 2 3	0 ° to 180 °	10 kHz to 30 kHz	0.75 °		LAB
		50 Hz	0.10 °	unequal input voltages 100 mV < U <sub>i</sub> < 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 °		
TF 2 4	Rise time				LAB
	70 ps to 1000 ps	pulse repeat ≤ 1 MHz	20 ps	180 mV <sub>pp</sub> to 300 mV <sub>pp</sub> in 50 Ω measuring only	

HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>2</sup>	Remarks	Location
PV 0 0	Pressure				
PV 1 1	Absolute pressure	10 kPa to 60 kPa	10 Pa	nitrogen, measuring and generating	LAB
		60 kPa to 700 kPa	$3.1 \cdot 10^{-5} \cdot p + 10 \text{ Pa}$		
		700 kPa to 10 MPa	$4.2 \cdot 10^{-5} \cdot p + 95 \text{ Pa}$		
PV 1 2	Gauge pressure	0 kPa to 15 kPa	$3.5 \cdot 10^{-5} \cdot p_e + 0.48 \text{ Pa}$	nitrogen, measuring and generating	LAB
		15 kPa to 700 kPa	$3.5 \cdot 10^{-5} \cdot p_e + 6.1 \text{ Pa}$		
		700 kPa to 10 MPa	$4.2 \cdot 10^{-5} \cdot p_e + 95 \text{ Pa}$		

<sup>2</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<sub>i</sub>, is calculated according to EA-4/02 "Evaluation of the Uncertainty of Measurement in Calibration".



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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>2</sup>	Remarks	Location
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
		-15 kPa to 0 kPa	$3.5 \cdot 10^{-5} \cdot p_e + 0.48$ 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
		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		
		113 to 339 Nm	$6 \cdot 10^{-3} \cdot M + 1.06$ Nm		
TE 0 0	TEMPERATURE, HUMIDITY, THERMOPHYSICAL PROPERTIES				
TE 1 0	Resistance thermometers			also for indicators and recorder with resistance thermometers	
		5 °C to 15 °C	0.11 °C	measurements in climate chamber	LAB
		15 °C to 24 °C	0.045 °C	measurements in climate chamber	LAB
		24 °C to 65 °C	0.045 °C to 0.17 °C	measurements in climate chamber	LAB
		0.01 °C	0.0059 °C	triple point of water	LAB
		29.7646 °C	0.0068 °C	fixed point gallium	LAB
		419.527 °C	0.010 °C	fixed point zinc	LAB
		660.323 °C	0.014 °C	fixed point aluminium	LAB
		-95 °C to -80 °C	0.025 °C		LAB
		-80 °C to 125 °C	0.085 °C		LAB + OS
	-80 °C to 248 °C	0.014 °C		LAB	

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>2</sup>	Remarks	Location
TE 1 0		248 °C to 500 °C	0.021 °C		LAB
		500 °C to 660 °C	0.053 °C		LAB
TE 3 0	Thermocouples			also for indicators and recorders with thermocouples	
		0 °C to 26 °C	0.022 °C	thermocouple Type-E	LAB
		-30 °C to 200 °C	0.16 °C		LAB + OS
		-95 °C to 660 °C	0.10 °C		LAB
		660 °C to 1000 °C	0.80 °C		LAB
		35 °C to 500 °C	0.5 °C to 1.8 °C	surface thermometers and surface calibrators	LAB
TE 4 2	Liquid-in-Glass thermometer				LAB
		-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
		-35 °C to 550 °C	0.20 °C to 0.55 °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 + OS
		0 °C to 26 °C	0.025 °C	4) thermocouple type E	LAB
		-250 °C to -200 °C	0.38 °C	4)	LAB + OS
		-200 °C to -100 °C	0.25 °C	4)	LAB + OS

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

This annex is valid from: **06-06-2018** to **01-10-2019**

Replaces annex dated: **09-08-2017**

HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>2</sup>	Remarks	Location
TE 9 0		-100 °C to -25 °C	0.14 °C	4)	LAB + OS
		-25 °C to 120 °C	0.12 °C	4)	LAB + OS
		120 °C to 1000 °C	0.19 °C	4)	LAB + OS
		1000 °C to 1372 °C	0.30 °C	4)	LAB + OS
		1372 °C to 1767 °C	0.34 °C	4)	LAB + 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 + OS
		-95 °C to 140 °C	0.033 °C	< -80 °C only dry well	LAB + OS
		140 °C to 660 °C	0.033 °C to 0.053 °C	liquid bath ≤ 500 °C	LAB + OS
		660 °C to 1000 °C	0.56 °C	only for furnaces	LAB
		1000 °C to 1200 °C	2.2 °C	only for furnaces	LAB
RH 0 0	Relative Humidity				LAB
		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  $T_a = (23 \pm 3)$  °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.