

of **Caliz B.V.**

This annex is valid from: **29-06-2022** to **01-02-2025**

Replaces annex dated: **23-03-2022**

Location(s) where activities are performed under accreditation

Head Office

Nederhof 3
 5258 CB
 Berlicum
 The Netherlands

Location	Abbreviation/ location code
Nederhof 3 5258 CB Berlicum The Netherlands	BE

HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
LF 0 0	DC/LF quantities				
LF 1 0	Direct voltage				
LF 1 1	Direct voltage				BE
	0 µV – 10 mV		0.6 µV	Measuring and generating	
	10 mV – 200 mV		$0.6 \mu\text{V} - 6.4 \cdot 10^{-6} \cdot U$		
	200 mV – 2 V		$(6.3 \cdot 10^{-6} - 3.6 \cdot 10^{-6}) \cdot U$		
	2 V – 20 V		$(5.6 \cdot 10^{-6} - 3.6 \cdot 10^{-6}) \cdot U$		
	20 V – 200 V		$(7.1 \cdot 10^{-6} - 5.1 \cdot 10^{-6}) \cdot U$		

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
	200 V – 1050 V		$(7.9 \cdot 10^{-6} - 5.6 \cdot 10^{-6}) \cdot U$		
	1050 V – 1100 V		$(3.0 \cdot 10^{-3} - 2.9 \cdot 10^{-3}) \cdot U$	Measuring only	
LF 1 3	Direct high voltage				BE
	1100 V – 10 kV		$(9.4 \cdot 10^{-3} - 4.1 \cdot 10^{-3}) \cdot U$	Measuring only	
	10 kV – 40 kV		$(7.3 \cdot 10^{-3} - 6.5 \cdot 10^{-3}) \cdot U$		
LF 2 0	Direct current				
LF 2 1	Direct Current				BE
	1 nA – 200 µA		$0.5 \text{ nA} - 1.3 \cdot 10^{-5} \cdot I$	Measuring and generating	
	200 µA – 2 mA		$(3.2 \cdot 10^{-5} - 1.3 \cdot 10^{-5}) \cdot I$		
	2 mA – 20 mA		$(3.3 \cdot 10^{-5} - 1.4 \cdot 10^{-5}) \cdot I$		
	20 mA – 200 mA		$(8.6 \cdot 10^{-5} - 4.5 \cdot 10^{-5}) \cdot I$		
	200 mA – 2 A		$(2.9 \cdot 10^{-4} - 2.1 \cdot 10^{-4}) \cdot I$		
	2 A – 20 A		$(6.8 \cdot 10^{-4} - 4.7 \cdot 10^{-4}) \cdot I$		
	20 A – 30 A		$(4.4 \cdot 10^{-3} - 4.1 \cdot 10^{-3}) \cdot I$	Measuring only	
LF 3 0	Alternating voltage				
LF 3 1	Alternating voltage				BE
	10 mV – 200 mV	10 Hz – 40 Hz	$(6.0 \cdot 10^{-4} - 1.7 \cdot 10^{-4}) \cdot U$	Measuring and generating	
		40 Hz – 100 Hz	$(5.8 \cdot 10^{-4} - 1.5 \cdot 10^{-4}) \cdot U$		
		100 Hz – 2 kHz	$(4.1 \cdot 10^{-4} - 2.5 \cdot 10^{-4}) \cdot U$		
		2 kHz – 10 kHz	$(5.8 \cdot 10^{-4} - 1.5 \cdot 10^{-4}) \cdot U$		
		10 kHz – 30 kHz	$(1.3 \cdot 10^{-3} - 4.0 \cdot 10^{-4}) \cdot U$		
		30 kHz – 100 kHz	$(3.1 \cdot 10^{-3} - 9.3 \cdot 10^{-4}) \cdot U$		
	200 mV – 20 V	10 Hz – 40 Hz	$(2.3 \cdot 10^{-4} - 1.3 \cdot 10^{-4}) \cdot U$		

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		40 Hz – 100 Hz	$(2.1 \cdot 10^{-4} - 1.1 \cdot 10^{-4}) \cdot U$	Measuring and generating	
		100 Hz – 2 kHz	$(1.9 \cdot 10^{-4} - 8.3 \cdot 10^{-5}) \cdot U$		
		2 kHz – 10 kHz	$(2.1 \cdot 10^{-4} - 1.1 \cdot 10^{-4}) \cdot U$		
		10 kHz – 30 kHz	$(4.6 \cdot 10^{-4} - 2.6 \cdot 10^{-4}) \cdot U$		
		30 kHz – 100 kHz	$(1.7 \cdot 10^{-3} - 7.0 \cdot 10^{-4}) \cdot U$		
		100 kHz – 300 kHz	$(1.5 \cdot 10^{-2} - 4.6 \cdot 10^{-3}) \cdot U$		
		300 kHz – 1 MHz	$(1.3 \cdot 10^{-1} - 2.3 \cdot 10^{-2}) \cdot U$	From 3.3 V / 500 kHz measuring only	
	20 V – 200 V	10 Hz – 40 Hz	$(2.4 \cdot 10^{-4} - 1.4 \cdot 10^{-4}) \cdot U$	Measuring and generating	
		40 Hz – 100 Hz	$(2.1 \cdot 10^{-4} - 1.1 \cdot 10^{-4}) \cdot U$		
		100 Hz – 2 kHz	$(1.9 \cdot 10^{-4} - 8.6 \cdot 10^{-5}) \cdot U$		
		2 kHz – 10 kHz	$(2.1 \cdot 10^{-4} - 1.1 \cdot 10^{-4}) \cdot U$		
		10 kHz – 30 kHz	$(4.6 \cdot 10^{-4} - 2.6 \cdot 10^{-4}) \cdot U$		
		30 kHz – 100 kHz	$(1.7 \cdot 10^{-3} - 7.0 \cdot 10^{-4}) \cdot U$	From 33 V / 100 kHz measuring only	
		100 kHz – 300 kHz	$(1.5 \cdot 10^{-2} - 4.6 \cdot 10^{-3}) \cdot U$	Measuring only	
	200 V – 1050 V	40 Hz – 10 kHz	$(1.8 \cdot 10^{-4} - 3.8 \cdot 10^{-4}) \cdot U$	From 330 V, 10 kHz measuring only	
		10 kHz – 30 kHz	$(3.7 \cdot 10^{-4} - 1.8 \cdot 10^{-3}) \cdot U$	Measuring only	
	1050 V – 1100 V	50 Hz – 60 Hz	$(3.0 \cdot 10^{-3} - 2.9 \cdot 10^{-3}) \cdot U$		
LF 3 3	Alternating high voltage				BE
	1100 V – 7 kV	50 Hz – 60 Hz	$(1.2 \cdot 10^{-2} - 7.3 \cdot 10^{-3}) \cdot U$	Measuring only	
	7 kV – 28 kV	50 Hz – 60 Hz	$(8.4 \cdot 10^{-3} - 7.4 \cdot 10^{-3}) \cdot U$		
LF 4 0	Alternating current				

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
LF 4 1	Alternating current				BE
	10 µA - 200 µA	10 Hz – 5 kHz	$(2.6 \cdot 10^{-3} - 4.3 \cdot 10^{-4}) \cdot I$	Measuring and generating	
	200 µA – 200 mA	10 Hz – 10 kHz	$(1.5 \cdot 10^{-3} - 4.2 \cdot 10^{-4}) \cdot I$		
		10 kHz – 30 kHz	$(1.9 \cdot 10^{-3} - 8.2 \cdot 10^{-4}) \cdot I$		
	200 mA – 2 A	10 Hz – 2 kHz	$(1.9 \cdot 10^{-3} - 8.1 \cdot 10^{-4}) \cdot I$		
		2 kHz – 10 kHz	$(2.0 \cdot 10^{-3} - 9.3 \cdot 10^{-4}) \cdot I$		
		10 kHz – 30 kHz	$(4.6 \cdot 10^{-3} - 3.6 \cdot 10^{-3}) \cdot I$		
	2 A – 20 A	10 Hz – 2 kHz	$(2.2 \cdot 10^{-3} - 1.1 \cdot 10^{-3}) \cdot I$		
		2 kHz – 10 kHz	$(4.1 \cdot 10^{-3} - 3.0 \cdot 10^{-3}) \cdot I$		
	20 A – 30 A	20 Hz – 400 Hz	$(4.4 \cdot 10^{-3} - 4.1 \cdot 10^{-3}) \cdot I$	Measuring only	
LF 6 0	Impedance DC/LF				
LF 6 1	Resistance				
LF 6 2	DC Resistance				BE
	0 Ω – 2 Ω		$10 \mu\Omega - 1.5 \cdot 10^{-5} \cdot R$	Measuring only	
	4 mΩ - 2 Ω		$10 \mu\Omega - 1.5 \cdot 10^{-5} \cdot R$	Measuring and generating	
	2 Ω – 20 Ω		$(1.8 \cdot 10^{-5} - 9.5 \cdot 10^{-6}) \cdot R$		
	20 Ω – 200 Ω		$(1.2 \cdot 10^{-5} - 8.7 \cdot 10^{-6}) \cdot R$		
	200 Ω – 20 kΩ		$(1.1 \cdot 10^{-5} - 8.7 \cdot 10^{-6}) \cdot R$		
	20 kΩ – 200 kΩ		$(1.2 \cdot 10^{-5} - 9.3 \cdot 10^{-6}) \cdot R$		
	200 kΩ - 2 MΩ		$(3.6 \cdot 10^{-5} - 1.1 \cdot 10^{-5}) \cdot R$		
	2 MΩ - 20 MΩ		$(3.1 \cdot 10^{-5} - 1.7 \cdot 10^{-5}) \cdot R$	Measuring in HI Voltage Measure mode and generating	
	20 MΩ – 200 MΩ		$(8.8 \cdot 10^{-5} - 4.8 \cdot 10^{-5}) \cdot R$		

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
	200 MΩ – 2 GΩ		$(1.2 \cdot 10^{-3} - 3.5 \cdot 10^{-4}) \cdot R$		
	2 GΩ – 20 GΩ		$(6.5 \cdot 10^{-3} - 1.3 \cdot 10^{-3}) \cdot R$		
TF 0 0	Time and frequency				
TF 2 0	Relative Time				
TF 2 1	Frequency				BE
	0,1 Hz – 160 MHz		$5.8 \cdot 10^{-6} \cdot f - 1.2 \cdot 10^{-7} \cdot f$	Measuring INT / EXT REF	
	0,01 Hz – 20 MHz		$1.2 \cdot 10^{-7} \cdot f$	Waveform generator < 100 Hz squarewave signals only	
	1 rpm – 200000 rpm	0.017 Hz – 3334 Hz	0.0006 rpm – 0.6 rpm	Tachometer (optical)	
	1 rpm – 9000 rpm		0.0009 rpm – 0.07 rpm	Tachometer (mechanical)	
	1 m/min – 1802 m/min		0.002 m/min – 0.7 m/min	Surface speed meter	
	10 rpm – 99 999 rpm	0.17 Hz – 1667 Hz	0.027 rpm – 6 rpm	Stroboscope	
TF 2 2	Time interval		0.04 s/d	Digital stopwatch	BE
			1.0 s/d	Mechanical stopwatch	

Remarks:

By generating alternating voltages applies: Voltage-Frequency < $2.2 \cdot 10^7$ V·Hz

By measuring alternating voltages applies: Voltage-Frequency < $8 \cdot 10^7$ V·Hz

The calibrations in the electrical laboratory are being carried out at an ambient temperature of nominal 23 °C.

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DM 0 0	Dimensional quantities				
DM 1 0	Length gauges				BE
	Steel	≤ 100 mm	0.075 μm + 0.85·10 ⁻⁶ ./	Using a comparator	
	Ceramics	≤ 100 mm	0.075 μm + 0.8·10 ⁻⁶ ./		
	Tungsten carbide	≤ 100 mm	0.075 μm + 2.6·10 ⁻⁶ ./		
	Steel	≤ 600 mm	0.4 μm + 1.0·10 ⁻⁶ ./	Using an ULM	
	Ceramics	≤ 600 mm	0.4 μm + 1.4·10 ⁻⁶ ./		
	Tungsten carbide	≤ 600 mm	0.4 μm + 3.8·10 ⁻⁶ ./		
	Internal set gauges	≤ 600 mm	0.6 μm + 5.3·10 ⁻⁶ ./		
	Setting foils	≤ 2 mm	0.5 μm		
	Feeler gauges	≤ 5 mm	0.8 μm	DIN 2275	
DM 2 0	Line scales, distances				BE
	Line scales, measuring tapes and spring rules	≤ 500 m	$\sqrt{n} \cdot 0.2$ mm	With n = l/5 (l is nominal length and n is rounded up to an integer)	
	Dial gauge	≤ 50 mm	0.8 μm	DIN 878, 897, 2270	
		50 – 100 mm	1.9 μm		
	Outline scales	≤ 315 mm	0.03 mm	Graduation diameter	
		≤ 1000 mm	0.16 mm	Graduation outline	
DM 3 0	Length measuring instruments				BE
	Vernier callipers	≤ 1500 mm	14 μm + 2.0·10 ⁻⁵ ./	DIN 862	

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".

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HCS code	Measured quantity, Instrument, Measure	Range	CMC ²	Remarks	Location
	Height callipers	≤ 1000 mm	16 μm + 1.5 · 10 ⁻⁵ ./	DIN 862	
	Depth callipers	≤ 1000 mm	16 μm + 1.5 · 10 ⁻⁵ ./	DIN 862	
	Outside micrometers	≤ 100 mm	1.8 μm	DIN 863-1 / DIN 863-3	
		(100 – 1000) mm	2.4 μm + 5.2 · 10 ⁻⁶ ./		
	Internal micrometer	≤ 100 mm	1.7 μm	DIN 863-4 with pieces to extend the length	
		(100 – 600) mm	1.9 μm + 4.0 · 10 ⁻⁶ ./		
	3-point internal micrometers	(4 – 30) mm	2.1 μm	DIN 863-4	
		(30 – 150) mm	2.5 μm + 7.2 · 10 ⁻⁶ ./		
		(150 – 300) mm	2.2 μm + 1.0 · 10 ⁻⁵ ./		
	2-point internal micrometers	(4 – 30) mm	2.7 μm		
		(30 – 150) mm	3.0 μm + 6.3 · 10 ⁻⁶ ./		
		(150 – 300) mm	2.7 μm + 9.7 · 10 ⁻⁶ ./		
	Micrometer calliper heads and dial gauge testers	≤ 50 mm	1.2 μm		
	Depth micrometers	≤ 50 mm	3.1 μm	DIN 863-2	
	Lead through length measuring instrument	> 15 m	0.01 m + 2.5 · 10 ⁻³ ./		
DM 4 0	Diameter				BE
	Plug gauges	≤ 10 mm	0.6 μm	Using an ULM	
		≤ 50 mm	0.9 μm		
		(50 – 100) mm	1.4 μm		
		(100 – 600) mm	1.0 μm + 5.0 · 10 ⁻⁶ ./		

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HCS code	Measured quantity, Instrument, Measure	Range	CMC ²	Remarks	Location
	Ring gauges	(1 – 30) mm	1.3 µm		
		(30 – 150) mm	1.3 µm + 4.0·10 ⁻⁶ ./		
		(150 – 300) mm	0.9 µm + 6.3·10 ⁻⁶ ./		
	Bore measuring instrument	≤ 5 mm	1.7 µm		
	Snap gauges	(10 – 150) mm	1.3 µm + 3.7·10 ⁻⁶ ./		
		(10 – 300) mm	2.1 µm + 3.8 ·10 ⁻⁶ ./		
DM 5 0	Form error				BE
	Straight-edge	≤ 1000 mm	6 µm (squareness) 7 µm (parallelism)	Using an electronic length sensor	
		≤ 2000 mm	16 µm (squareness and parallelism)		
		≤ 2000 mm	0.03 mm	Using feeler gauges	
	Square	90°	8.0 µm (squareness) 6.0 µm (parallelism) 4.5 µm (straightness)	Leg length ≤ 600 mm	
		90°	11.0 µm (squareness) 8.0 µm (parallelism) 7.5 µm (straightness)	Leg length ≤ 1000 mm	
	Roundness	∅ ≤ 280 mm	0.4 µm		
DM 7 0	Thread quantities			Cylindrical screw thread with equal flank angle	BE
	Thread plug gauge				
	Simple effective diameter	(1 – 100) mm	30° (5.7 – 9.4) µm 55° (3.5 – 4.2) µm 60° (3.2 – 3.8) µm 90° (2.5 – 2.7) µm	Depending on pitch Method 1a, according to TCGM - 04.05	
DM 8 1	Tools, products	≤ 100 mm	5 µm	Using a measuring microscope	BE
		(100 – 200) mm	6 µm		

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		360°	12" (hoekmeting)		
		≤ 100 mm	3,0 μm (diameter meting)		
		≤ 600 mm	0.6 μm + 1.3·10 ⁻⁵ ·/	Using an ULM	
		≤ 100 mm	3 μm	Using altimeter	
		≤ (100 - 850) mm	2 μm + 8.3·10 ⁻⁶ ·/		
		≤ 100 mm	4 μm	M.b.v. schroefmaat	
		≤ 150 mm ≤ 1000 mm	0.04 mm 0.06 mm + 1.8·10 ⁻⁵ ·/	M.b.v. schroefmaat	
DM 9 0	Angle (measuring instruments)				BE
	Levels	≤ 10 mm/m	5.0 μm/m	Spirit level	
		≤ 10 mm/m	3.0 μm/m	Electronic level	
	Angle	≤ 360°	1.4'	Using an optical dividing head	
		≤ 180°	6'	Using angle gauge blocks	
FQ 0 0	Force <i>F</i> (tension and compression)	≤ 2000 N	0.001 N + 9·10 ⁻⁵ · <i>F</i>	Using deadweight	BE
	Force <i>F</i> (tension and compression)	≤ 10 kN	0.1 N + 8.5·10 ⁻⁴ · <i>F</i>	Using a reference transducer	
		≤ 50 kN	1.5 N + 7.0·10 ⁻⁴ · <i>F</i>		
PV 0 0	Pressure and vacuum				
PV 1 0	Gas pressure				BE
PV 1 1	Absolute pressure	(70 – 110) kPa	6.0·10 ⁻⁵ · <i>p</i> + 0.014 kPa	By comparing with reference barometer	

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		(10 – 840) kPa	$6.5 \cdot 10^{-5} \cdot p + 0.22$ kPa	Air / Nitrogen	
		(840 - 3500) kPa	$1.1 \cdot 10^{-4} \cdot p + 0.2$ kPa		
PV 1 2	Over atmospheric pressure	(0 – 35) kPa	$2.3 \cdot 10^{-4} \cdot p + 0.013$ kPa	By comparing with digital pressure indicator	
		(-100 – 350) kPa	$5.8 \cdot 10^{-5} \cdot p + 0.042$ kPa		
		(0 – 840) kPa	$6.5 \cdot 10^{-5} \cdot p + 0.1$ kPa	Nitrogen	
		(840 – 3500) kPa	$1.1 \cdot 10^{-4} \cdot p + 0.01$ kPa		
PV 2 0	Liquid pressure				BE
PV 2 2	Over atmospheric pressure	(0,1 – 120) MPa	$2.0 \cdot 10^{-4} \cdot p + 58$ Pa	Oil	
TQ 0 0	Torque	≤ 5 Nm	0.001 Nm + $1.3 \cdot 10^{-4} \cdot M$	Torque test systems	BE
		≤ 50 Nm	0.01 Nm + $1.3 \cdot 10^{-4} \cdot M$		
		≤ 2000 Nm	0.1 Nm + $2.2 \cdot 10^{-4} \cdot M$		
		≤ 1 Nm	0.006 Nm + $1.5 \cdot 10^{-3} \cdot M$	Torque wrench	
			0.006 Nm + $3.3 \cdot 10^{-3} \cdot M$	Click wrench	
		≤ 10 Nm	0.03 Nm + $3.1 \cdot 10^{-3} \cdot M$	Torque wrench	
			0.03 Nm + $5.2 \cdot 10^{-3} \cdot M$	Click wrench	
		≤ 100 Nm	0.3 Nm + $1.6 \cdot 10^{-3} \cdot M$	Torque wrench	
			0.3 Nm + $4.2 \cdot 10^{-3} \cdot M$	Click wrench	
		≤ 400 Nm	2.0 Nm + $0.7 \cdot 10^{-3} \cdot M$	Torque wrench	
			2.0 Nm + $2.9 \cdot 10^{-3} \cdot M$	Click wrench	
		≤ 1100 Nm	2.0 Nm + $1.7 \cdot 10^{-3} \cdot M$	Torque wrench	

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			2.0 Nm + 4.7·10 ⁻³ ·M	Click wrench	
		≤ 2000 Nm	4.0 Nm + 1.6·10 ⁻³ ·M	Torque wrench	
			4.0 Nm + 4.6·10 ⁻³ ·M	Click wrench	
TE 0 0	Temperature				
TE 1 0	Resistance thermometers	-100 °C – -40 °C	0.06 °C	Calibration in liquid / oven	BE
		-40 °C – 231 °C	0.010 °C	Calibration in liquid	
		231 °C – 650 °C	0.10 °C	Calibration in oven	
TE 3 0	Thermocouples	-100 °C – 231 °C	0.14 °C	Calibration in liquid / oven	BE
		231 °C – 650 °C	0.7 °C	Calibration in oven	
		650 °C – 1000 °C	1.5 °C		
TE 4 0	Self indicating thermometers				BE
TE 4 1	Temperature sensors with display unit (e.g. dataloggers or digital system thermometers)	-40 °C – 100 °C	0.15 °C	Calibration in air	
		-100 °C – -40 °C	0.05 °C	Calibration in liquid / oven	
		-40 °C – 231 °C	0.010 °C	Calibration in liquid	
		231 °C – 650 °C	0.10 °C	Calibration in oven	
		650 °C – 1000 °C	1.5 °C		
TE 4 2	Liquid-in-glass-thermometers	-40 °C – 220 °C	0.05 °C	Calibration in liquid	
TE 5 0	Radiation thermometry				BE
TE 5 1	Pyrometers, optical	-15 °C – 500 °C	0.6 °C – 2.2 °C		

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TE 9 0	Simulators / indicators				BE
TE 9 1	For the purpose of resistance thermometers				
		-200°C – 850°C	0.0030 °C – 0.014°C	Measuring and generating	
TE 9 2	For the purpose of thermocouples	Type JKTENS	0.13 °C – 0.48 °C	Internal CJC Measuring and generating	
		Type JKTENSRBLU	0.02 °C – 0.51 °C	External CJC (0 °C) Measuring and generating	
TE 13 0	Other temperature enclosures				BE
TE 13 2	Thermostat baths and ovens	-100 °C – 650 °C	0.1 °C		
RH 0 0	Humidity				
RH 1 0	Hygrometers	(10 – 95) %rh	1 %rh	10 °C < T < 50 °C	BE
RH 1 1	Dew/frost-point hygrometer	(-20 – 50) °C	0.15 °C		