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Confédération suisse  
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Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,  
Education and Research EAER  
**State Secretariat for Economic Affairs SECO**  
Swiss Accreditation Service SAS

## SCS Directory

**Accreditation number: SCS 0155**

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

Testo Industrial Services AG  
Gewerbestrasse 12a  
8132 Egg

Head:	Florian Nallbani
Responsible for MS:	Katharina Janssen
Telephone:	+41 43 277 10 30
E-Mail:	<a href="mailto:info@testotis.ch">mailto:info@testotis.ch</a>
Internet:	<a href="http://www.testotis.ch">http://www.testotis.ch</a>
Initial accreditation:	04.02.2020
Current accreditation:	04.02.2020 to 03.02.2025
Scope of accreditation see:	<a href="http://www.sas.admin.ch">www.sas.admin.ch</a> (Accredited bodies)

### Scope of accreditation as of 17.05.2022

**Calibration laboratory for electrical quantities, temperature, relative humidity, pressure, flow, rotational speed, length, torque, mass, time and frequency**

Calibration and Measurement Capability (CMC)

Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
<b>ELECTRICAL MEASUREMENT</b>		<b>LABORATORY AND ONSITE<sup>2)</sup></b> <small><sup>2)</sup> WITH HIGHER MEASUREMENT UNCERTAINTY</small>		
DC voltage	0 V		1 $\mu$ V	$U$ = measured value Fluke 5720A
	0,01 V ... 0,22 V		$7,6 \cdot 10^{-6} U + 1,2 \mu\text{V}$	m
	>0,22 V ... 2,2 V		$5,0 \cdot 10^{-6} U + 1,4 \mu\text{V}$	
	>2,2 V ... 11 V		$4,7 \cdot 10^{-6} U$	
	>11 V ... 22 V		$3,9 \cdot 10^{-6} U$	
	>22 V ... 220 V		$6,8 \cdot 10^{-6} U$	
	>220 V ... 1000 V		$8,4 \cdot 10^{-6} U$	



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DC voltage sources	0 V		1 $\mu$ V	$U$ = measured value HP 3458A
	1 mV ... 100 mV		$6,7 \cdot 10^{-6} U + 1,2 \mu$ V	
	>100 mV ... 1 V		$7,9 \cdot 10^{-6} U$	
	>1 V ... 10 V		$5,8 \cdot 10^{-6} U$	
	>10 V ... 100 V		$9,0 \cdot 10^{-6} U$	
	>100 V ... 1000 V		$11 \cdot 10^{-6} U$	
DC current	0 A		0,2 nA	$I$ = measured value Fluke 5720A
	10 $\mu$ A ... 220 $\mu$ A		$41 \cdot 10^{-6} I + 6$ nA	
	>220 $\mu$ A ... 2,2 mA		$36 \cdot 10^{-6} I + 7$ nA	
	>2,2 mA ... 22 mA		$54 \cdot 10^{-6} I$	
	>22 mA ... 220 mA		$77 \cdot 10^{-6} I$	
	>220 mA ... 1 A		$0,13 \cdot 10^{-3} I$	
	>1 A ... 2,2 A		$92 \cdot 10^{-6} I$	
	>2,2 A ... 3 A		$0,29 \cdot 10^{-3} I$	
	>3 A ... 11 A		$0,52 \cdot 10^{-3} I$	
	>11 A ... 20 A		$0,34 \cdot 10^{-3} I$	
DC current sources	0 A		0,2 nA	$I$ = measured value HP 3458A
	0,1 $\mu$ A ... 1 $\mu$ A		$0,29 \cdot 10^{-3} I$	
	>1 $\mu$ A ... 10 $\mu$ A		$80 \cdot 10^{-6} I$	
	>10 $\mu$ A ... 100 $\mu$ A		$67 \cdot 10^{-6} I$	
	>100 $\mu$ A ... 10 mA		$47 \cdot 10^{-6} I$	
	>10 mA ... 100 mA		$57 \cdot 10^{-6} I$	
	>100 mA ... 1 A		$0,14 \cdot 10^{-3} I$	
	>1 A ... 10 A		$60 \cdot 10^{-6} I$	
				$I$ = measured value voltage over normal resistence



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DC current sources	>10 A ... 100 A		0,16 · 10 <sup>-3</sup> I	
	>100 A ... 200 A		1,2 · 10 <sup>-3</sup> I	
DC current clamps	>20 A ... 1000 A		1,2 · 10 <sup>-3</sup> I	I = measured value
DC resistance	0 Ω		40 μΩ	<i>R</i> = measured value Fluke 5720A
	1 Ω; 1,9 Ω		95 · 10 <sup>-6</sup> R	
	10 Ω; 19 Ω		23 · 10 <sup>-6</sup> R	
	100 Ω; 190 Ω		10 · 10 <sup>-6</sup> R	
	1 kΩ		8,5 · 10 <sup>-6</sup> R	
	1,9 kΩ		8,7 · 10 <sup>-6</sup> R	
	10 kΩ; 19 kΩ		8,5 · 10 <sup>-6</sup> R	
	100 kΩ; 190 kΩ		11 · 10 <sup>-6</sup> R	
	1 MΩ		20 · 10 <sup>-6</sup> R	
	1,9 MΩ		22 · 10 <sup>-6</sup> R	
DC resistance	10 MΩ		40 · 10 <sup>-6</sup> R	
	19 MΩ		47 · 10 <sup>-6</sup> R	
	100 MΩ		0,11 · 10 <sup>-3</sup> R	
	0,001 Ω ... <0,01 Ω	Normalwiderstand 0,001 Ω	24 · 10 <sup>-3</sup> R	Substitution over normal resistance
	0,01 Ω ... <0,1 Ω	Normalwiderstand 0,01 Ω	0,17 · 10 <sup>-3</sup> R	
	0,1 Ω ... <1 Ω	Normalwiderstand 0,1 Ω	70 · 10 <sup>-6</sup> R	
	0 Ω	0,10 mΩ		
	1 Ω ... 10 Ω		13 · 10 <sup>-6</sup> R + 35 μΩ	<i>R</i> = measured value HP 3458A
	>10 Ω ... 100 Ω		8,2 · 10 <sup>-6</sup> R + 0,33 mΩ	
	>100 Ω ... 100 kΩ		10 · 10 <sup>-6</sup> R	
	>100 kΩ ... 1 MΩ		23 · 10 <sup>-6</sup> R	



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DC resistance	>1 MΩ ... 10 MΩ		0,10 · 10 <sup>-3</sup> R	
	>10 MΩ ... 100 MΩ		0,40 · 10 <sup>-3</sup> R	
	>100 MΩ ... 1 GΩ		3,4 · 10 <sup>-3</sup> R	
DC resistance (ranges) measuring devices	1 Ω ...<11 Ω		33 · 10 <sup>-6</sup> R+ 0,78mΩ	<i>R</i> = measured value Fluke 5520A/5522A
	11 Ω ...<33 Ω		25 · 10 <sup>-6</sup> R+ 1,2mΩ	
	33 Ω ...<110 Ω		23 · 10 <sup>-6</sup> R+ 1,1mΩ	
	110 Ω ...<330 Ω		23 · 10 <sup>-6</sup> R+ 1,6mΩ	
	330 Ω ...<1.1 kΩ		23 · 10 <sup>-6</sup> R+ 1,7mΩ	
	1,1 kΩ ...<3,3 kΩ		23 · 10 <sup>-6</sup> R+ 16mΩ	
	3,3 kΩ ...<11 kΩ		23 · 10 <sup>-6</sup> R+ 17mΩ	
	11 kΩ ...<33 kΩ		23 · 10 <sup>-6</sup> R+ 0,16Ω	
	33 kΩ ...<110 kΩ		23 · 10 <sup>-6</sup> R+ 0,17Ω	
	110 kΩ ...<330 kΩ		26 · 10 <sup>-6</sup> R+ 1,6Ω	
	330 kΩ ...<1,1MΩ		26 · 10 <sup>-6</sup> R+ 1,7Ω	
	1,1 MΩ ...<3,3 MΩ		71 · 10 <sup>-6</sup> R	
	3,3 MΩ ...<11 MΩ		0,11 · 10 <sup>-3</sup> R	
	11 MΩ ...<33 MΩ		0,37 · 10 <sup>-3</sup> R	
	33 MΩ ...<110 MΩ		0,40 · 10 <sup>-3</sup> R	
AC voltage	110 MΩ ...<330 MΩ		3,0 · 10 <sup>-3</sup> R	
	330 MΩ ...<1,1 GΩ		13 · 10 <sup>-3</sup> R	
	0,01 V ... 0,022 V	10 Hz ... 40 Hz	0,64 · 10 <sup>-3</sup> U	<i>U</i> =measured value Fluke 5720A
			0,48 · 10 <sup>-3</sup> U	
			0,60 · 10 <sup>-3</sup> U	
		>40 Hz ... 20 kHz	1,0 · 10 <sup>-3</sup> U	
			2,1 · 10 <sup>-3</sup> U	
		>20 kHz ... 50 kHz	3,4 · 10 <sup>-3</sup> U	



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AC voltage	>0,022 V ... 0,22 V	>500 kHz ... 1 MHz 10 Hz ... 40 Hz	$4,7 \cdot 10^{-3} U$ $0,79 \cdot 10^{-3} U$	
		>40 Hz ... 20 kHz	$0,40 \cdot 10^{-3} U$	
		>20 kHz ... 50 kHz	$0,52 \cdot 10^{-3} U$	
		>50 kHz ... 100 kHz	$1,2 \cdot 10^{-3} U$	
		>100 kHz ... 300 kHz	$1,8 \cdot 10^{-3} U$	
		>300 kHz ... 500 kHz	$2,5 \cdot 10^{-3} U$	
		>500 kHz ... 1 MHz	$4,7 \cdot 10^{-3} U$	
	>0,22 V ... 2,2 V	10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} U$	
		>40 Hz ... 20 kHz	$83 \cdot 10^{-6} U$	
		>20 kHz ... 50 kHz	$0,12 \cdot 10^{-3} U$	
		>50 kHz ... 100 kHz	$0,25 \cdot 10^{-3} U$	
		>100 kHz ... 300 kHz	$0,78 \cdot 10^{-3} U$	
		>300 kHz ... 500 kHz	$1,9 \cdot 10^{-3} U$	
		>500 kHz ... 1 MHz	$3,1 \cdot 10^{-3} U$	
	>2,2 V ... 22 V	10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} U$	
		>40 Hz ... 20 kHz	$71 \cdot 10^{-6} U$	
		>20 kHz ... 50 kHz	$0,12 \cdot 10^{-3} U$	
		>50 kHz ... 100 kHz	$0,19 \cdot 10^{-3} U$	
		>100 kHz ... 300 kHz	$0,55 \cdot 10^{-3} U$	
		>300 kHz ... 500 kHz	$1,9 \cdot 10^{-3} U$	
		>500 kHz ... 1 MHz	$3,0 \cdot 10^{-3} U$	
	>22 V ... 220 V	10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} U$	
		>40 Hz ... 20 kHz	$82 \cdot 10^{-6} U$	
		>20 kHz ... 50 kHz	$0,13 \cdot 10^{-3} U$	
		>50 kHz ... 100kHz	$0,27 \cdot 10^{-3} U$	
	>220 V ... 1000 V	>50 Hz ... 1 kHz	$95 \cdot 10^{-6} U$	



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AC voltage source	0,01 V ... 0,1 V	40 Hz ... 1 kHz	$0,20 \cdot 10^{-3} U$	$U$ = measured value HP 3458A	
		>1 kHz ... 20 kHz	$0,24 \cdot 10^{-3} U$		
		>20 kHz ... 50 kHz	$0,34 \cdot 10^{-3} U$		
	>0,1 V ... 10 V	40 Hz ... 1 kHz	$0,18 \cdot 10^{-3} U$		
		>1 kHz ... 20 kHz	$0,23 \cdot 10^{-3} U$		
		>20 kHz ... 50 kHz	$0,33 \cdot 10^{-3} U$		
	>10 V ... 100 V	40 Hz ... 1 kHz	$0,27 \cdot 10^{-3} U$		
		>1 kHz ... 20 kHz	$0,27 \cdot 10^{-3} U$		
		>20 kHz ... 50 kHz	$0,37 \cdot 10^{-3} U$		
	>100 V ... 700 V	40 Hz ... 1 kHz	$0,41 \cdot 10^{-3} U$		
AC current		10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} I$	$I$ = measured value Fluke 5720A	
		>40 Hz ... 1 kHz	$0,20 \cdot 10^{-3} I$		
		>1 kHz ... 5 kHz	$0,40 \cdot 10^{-3} I$		
0,1mA ... 330 µA	>5 kHz ... 10 kHz	$1,8 \cdot 10^{-3} I$	$I$ = Measured value Fluke 5520A/5522A		
	>10 kHz ... 30 kHz	$23 \cdot 10^{-3} I$			
	10 Hz ... 40 Hz	$0,44 \cdot 10^{-3} I$			
>0,22mA ... 2,2 mA	>40 Hz ... 1 kHz	$0,28 \cdot 10^{-3} I$	$I$ = Measured value Fluke 5720A		
	>1 kHz ... 5 kHz	$0,70 \cdot 10^{-3} I$			
	>5 kHz ... 10 kHz	$4,1 \cdot 10^{-3} I$			
>0,33mA ... 3,3 mA	>10 kHz ... 30 kHz	$9,2 \cdot 10^{-3} I$	$I$ = measured value Fluke 5520A/5522A		
	10 Hz ... 40 Hz	$0,43 \cdot 10^{-3} I$			
	>40 Hz ... 1 kHz	$0,28 \cdot 10^{-3} I$			
>2,2mA ... 22 mA	>1 kHz ... 5 kHz	$0,45 \cdot 10^{-3} I$	$I$ = measured value Fluke 5720A		
	>5 kHz ... 10 kHz	$3,4 \cdot 10^{-3} I$			



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AC current	>3,3mA ... 33 mA	>10 kHz ... 30 kHz	$4,0 \cdot 10^{-3} I$	$I$ = measured value Fluke 5520A/5522A
	>22mA ... 220 mA	10 Hz ... 40 Hz	$0,43 \cdot 10^{-3} I$	$I$ = measured value Fluke 5720A
		>40 Hz ... 1 kHz	$0,24 \cdot 10^{-3} I$	
		>1 kHz ... 5 kHz	$0,36 \cdot 10^{-3} I$	
		>5 kHz ... 10 kHz	$1,6 \cdot 10^{-3} I$	
	>33mA ... 330 mA	>10 kHz ... 30 kHz	$7,8 \cdot 10^{-3} I$	$I$ = measured value Fluke 5520A/5522A
	>220 mA ... 2,2 A	20 Hz ... 1 kHz	$0,42 \cdot 10^{-3} I$	$I$ = measured value Fluke 5720A with 5220A
		>1 kHz ... 5 kHz	$0,81 \cdot 10^{-3} I$	
		>5 kHz ... 10 kHz	$7,7 \cdot 10^{-3} I$	
	>2,2 A ... 3 A	20 Hz ... 45 Hz	$1,2 \cdot 10^{-3} I$	$I$ = measured value Fluke 5720A with 5220A
		>45 Hz ... 1 kHz	$0,55 \cdot 10^{-3} I$	$I$ = measured value Fluke 5520A/5522A
		>1 kHz ... 2 kHz	$2,3 \cdot 10^{-3} I$	$I$ = measured value Fluke 5720A with 5220A
		>2 kHz ... 3 kHz	$3,5 \cdot 10^{-3} I$	
		>3 kHz ... 4 kHz	$4,6 \cdot 10^{-3} I$	
		>4 kHz ... 5 kHz	$5,4 \cdot 10^{-3} I$	$I$ = measured value Fluke 5520A/5522A
	>3 A ... 20 A	>5 kHz ... 10 kHz	$23 \cdot 10^{-3} I$	
		10 Hz ... 100 Hz	$0,98 \cdot 10^{-3} I$	$I$ = measured value Fluke 5520A/5522A
		>100 Hz ... 1 kHz	$1,2 \cdot 10^{-3} I$	$I$ = measured value Fluke 5720A with 5220A
		>1 kHz ... 2 kHz	$2,3 \cdot 10^{-3} I$	



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AC current sources	0,1 mA ... 100 mA	>2 kHz ... 3 kHz	$3,5 \cdot 10^{-3} I$	
		>3 kHz ... 4 kHz	$4,6 \cdot 10^{-3} I$	
		>4 kHz ... 5 kHz	$5,8 \cdot 10^{-3} I$	
	>100 mA ... 1 A	20 Hz ... 45 Hz	$2,3 \cdot 10^{-3} I$	$I$ = measured value HP 3458A
		>45 Hz ... 100 Hz	$1,7 \cdot 10^{-3} I$	
		>100 Hz ... 5 kHz	$1,5 \cdot 10^{-3} I$	
AC current clamps	>20 A ... 1000 A	20 Hz ... 45 Hz	$2,4 \cdot 10^{-3} I$	
		>45 Hz ... 100 Hz	$1,9 \cdot 10^{-3} I$	
AC current active power measuring in- struments	109 µW ... 33 W	>100 Hz ... 5 kHz	$2,0 \cdot 10^{-3} I$	
		40 Hz ... 100 Hz	$3,1 \cdot 10^{-3} I$	$I$ = measured value
		100 Hz ... 300 Hz	$3,3 \cdot 10^{-3} I$	
		33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 3,3 mA ... <33 mA	$0,85 \cdot 10^{-3} P$	
		1,09 mW ... 330 W 33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 33 mA ... <330 mA	$0,84 \cdot 10^{-3} P$	
	10,9 mW ... 1,1 kW 36,3 mW ... 3,0 kW 99 mW ... 11 kW 363 mW ... 20 kW	33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 330 mA ... <1,1 A	$0,69 \cdot 10^{-3} P$	
		33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 1,1 A ... <3 A	$0,62 \cdot 10^{-3} P$	
		33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 3 A ... <11 A	$1,0 \cdot 10^{-3} P$	
		33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 11 A ... <20,5 A	$1,3 \cdot 10^{-3} P$	
				$P$ = measured value with Fluke 5520A/5522A $PF$ : Powerfactor ( $\cos \varphi$ ), $\varphi$ : phase angle



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DC active power measuring instruments	10,9 µW ... 3,3 W	33 mV ... 1000 V 0,33 mA ... <3,3 mA	$0,20 \cdot 10^{-3} P$	$P$ = measured value with Fluke 5520A/5522A
	109 µW ... 33 W	33 mV ... 1000 V 3,3 mA ... <33 mA	$0,15 \cdot 10^{-3} P$	
	1,09 mW ... 330 W	33 mV ... 1000 V 33 mA ... <330 mA	$0,15 \cdot 10^{-3} P$	
	10,9 mW ... 1,1 kW	33 mV ... 1000 V 330 mA ... <1,1 A	$0,26 \cdot 10^{-3} P$	
	36,3 mW ... 3,0 kW	33 mV ... 1000 V 1,1 A ... <3,0 A	$0,30 \cdot 10^{-3} P$	
	99 mW ... 11 kW	33 mV ... 1000 V 3,0 mA ... <11 A	$0,52 \cdot 10^{-3} P$	
	363 mW ... 20 kW	33 mV ... 1000 V 11 A ... <20 A	$0,83 \cdot 10^{-3} P$	
Oscilloscopes Vertical deflection	5 mV ... <25 mV	$R_i = 50 \Omega$ Rechteckspannung 10 Hz ... 10 kHz	$2,0 \cdot 10^{-3} U + 16 \mu\text{V}$	$U$ = measured value
	25 mV ... <110 mV		$1,9 \cdot 10^{-3} U + 16 \mu\text{V}$	
	0,11V ... <2,2 V		$1,9 \cdot 10^{-3} U + 33 \mu\text{V}$	
	2,2 V ... <6 V		$1,9 \cdot 10^{-3} U + 0,29 \text{ mV}$	
	5 mV ... <25 mV	$R_i = 1 \text{ M}\Omega$ Rechteckspannung 10 Hz ... 10 kHz	$0,74 \cdot 10^{-3} U + 16 \mu\text{V}$	
	25 mV ... <110 mV		$0,43 \cdot 10^{-3} U + 16 \mu\text{V}$	
	0,11V ... <2,2 V		$0,39 \cdot 10^{-3} U + 33 \mu\text{V}$	
Oscilloscopes Horizontal deflection	2,2 V ... <11 V		$0,39 \cdot 10^{-3} U + 0,29 \text{ mV}$	
	11 V ... 130 V		$0,39 \cdot 10^{-3} U + 2,9 \text{ mV}$	
Oscilloscopes Rise time	5 ns ... 5 s	$R_i = 50 \Omega$	$0,5 \cdot 10^{-6} t + 0,3 \text{ ns}$	$t$ = measured value
Oscilloscopes Rise time	600 ps ... 10 ms	$25 \text{ mV} ... 1\text{V}$ $R_i = 50 \Omega$	$37 \cdot 10^{-3} t$	



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Frequency measurement	1mHz ... 1 GHz		$5 \cdot 10^{-11} f$	$f$ = measured value
Period duration	1µs ... 1000s		$5 \cdot 10^{-11} t$	$t$ = measured value
Time interval	2 s ... 48 h	Auflösung: 1/100 s 1/10 s 1 s	93 ms 0,24 s 1,1 s	stop watch
Capacity measuring instruments	190pF ... <400pF	10Hz ... 10kHz	$3,9 \cdot 10^{-3} C + 7,8 \text{ pF}$	C= Measured value with Fluke 5520A/5522A
	400pF ... <1,1nF	10Hz ... 10kHz	$3,9 \cdot 10^{-3} C + 7,8 \text{ pF}$	
	1,1nF ... <3,3nF	10Hz ... 3kHz	$4,0 \cdot 10^{-3} C + 7,8 \text{ pF}$	
	3,3nF ... <11nF	10Hz ... 1kHz	$2,0 \cdot 10^{-3} C + 7,8 \text{ pF}$	
	11nF ... <33nF	10Hz ... 1kHz	$2,3 \cdot 10^{-3} C + 78 \text{ pF}$	
	33nF ... <110nF	10Hz ... 1kHz	$2,0 \cdot 10^{-3} C + 78 \text{ pF}$	
	110nF ... <330nF	10Hz ... 1kHz	$4,2 \cdot 10^{-3} C$	
	330nF ... <1,1µF	10Hz ... 600Hz	$4,3 \cdot 10^{-3} C$	
	1,1µF ... <3,3µF	10Hz ... 300Hz	$4,8 \cdot 10^{-3} C$	
	3,3µF ... <11µF	10Hz ... 150Hz	$5,0 \cdot 10^{-3} C$	
	11µF ... <33µF	10Hz ... 120Hz	$5,8 \cdot 10^{-3} C$	
	33µF ... <110µF	10Hz ... 80Hz	$6,4 \cdot 10^{-3} C$	
	110µF ... <330µF	DC ... 50Hz	$5,6 \cdot 10^{-3} C$	
	330µF ... <1,1mF	DC ... 20Hz	$5,8 \cdot 10^{-3} C$	
	1,1mF ... <3,3mF	DC ... 6Hz	$5,6 \cdot 10^{-3} C$	
	3,3mF ... <11mF	DC ... 2Hz	$5,8 \cdot 10^{-3} C$	
	11mF ... <33mF	DC ... 0,6Hz	$7,9 \cdot 10^{-3} C$	
	33mF ... <110mF	DC ... 0,2Hz	$11 \cdot 10^{-3} C$	



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Temperature indica- tors and -simulators for re- sistance thermome- ter	-200°C ... 850°C		30 mK	Characteristic curve according DIN EN 60751:2009
Temperature indica- tors and -simulators of precious metal thermocouples	-200°C ... 1750°C		68 mK	Characteristic curve according DIN EN 60584-1:2014
Temperature indica- tors and -simulators for resistance ther- mometer of Non- precious metal ther- mocouples	-200°C ... 1300°C		25 mK	
<b>TEMPERATURE</b>				<b>LABORATORY</b>
Ice Point	0°C	Ice-water mixture from deionised Water according VDE 0510	5,0 mK	
Resistance thermo- meters (with and without display) electrical thermome- ters with resistance sensor with display / digital output)	-100°C ... <-80°C	mathematical ex- trapolation of the thermomechanical characteristic curve of the calibration val- ues for the range from -80 °C ... 0 °C	70 mK	comparison with standard reference resistance thermo- meter
	-80°C ... 0°C	stirred liquid bath	15 mK	
	>0°C ... 200°C		19 mK	
	>200°C ... 300°C	block calibrator	0,68 K	
	>300°C ... 500°C		0,85 K	
Temperature Pre- cious metal thermo- couples (with and without display)	>0°C ... 100°C	stirred liquid bath	0,89 K	comparison with standard reference resistance thermo- meter
	>100°C ... 200°C		0,70 K	
	>200°C ... 500°C	block calibrator	1,0 K	comparison with standard reference thermo-meter
	>500°C ... 1000°C		1,1 K	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Temperature Non-precious metal thermocouples	-100°C ... <-80°C	mathematical extrapolation of the thermo-couple characteristic curve of the calibration values for the range from -80°C...0°C	0,21 K	comparison with standard reference resistance thermometer
	-80°C ... 200°C	liquid bath	0,17 K	
	>200°C ... 500°C	block calibrator	0,86 K	comparison with Standard Reference thermocouple
	>500°C ... 1000°C		1,2 K	
Temperature measuring instruments, data loggers	-40°C ... -5°C	in the temperature cabinet	0,29 K	comparison with Standard Reference resistance thermometer
	>-5°C ... 5°C		0,25 K	
	>5°C ... 50°C		0,15 K	
	>50°C ... 80°C		0,22 K	
	>80°C ... 120°C		0,39 K	
Radiation thermometer	>120°C ... 180°C		0,88 K	
	-30°C ... 150°C	Calibration with black spotlight	1,2 K	Comparison with Standard Reference resistance thermometer with black spotlight
Surface temperature sensor	-20°C ... 100°C	Calibration of tempered surface	0,92 K	Comparison with Standard Reference resistance thermometer of tempered surface
	>100°C ... 180°C		1,4 K	
	>180°C ... 300°C		2,2 K	
Temperature block calibrators	-100°C ... <-80°C		0,33 K	Comparison with Standard Reference resistance thermometer
	-80°C ... 100°C		0,13 K	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Temperature block calibrators	>100°C ... 200°C		0,28 K	
	>200°C ... 300°C		0,29 K	
	>300°C ... 1000°C		1,2 K	
Circulating Bath (in a defined useable volume)	-100°C ... 0°C	Calibration at defined positions in useable volume	0,30 K	Comparison with Standard Reference resistance thermometer
	>0°C ... 100°C		0,30 K	
	>100°C ... 200°C		0,30 K	
	>200°C ... 400°C		1,0 K	

### TEMPERATURE

ONSITE

Ice Point	0°C	Ice-water mixture from deionised Water according VDE 0510	5,0 mK	
Resistance thermometers with display / electric thermometers with resistance sensor with display / digital output	-100°C ... 0°C	Block calibrator	0,39 K	Comparison with Standard Reference resistance thermometer
Glass thermometer	>0°C ... 100°C		0,38 K	
	>100°C ... 200°C		0,38 K	
	>200°C ... 400°C		0,98 K	
Thermocouples with display	0°C ... 100°C	Block calibrator	0,95 K	
	>100°C ... 700°C		1,6 K	
	>700°C ... 1000°C		3,3 K	
Radiation thermometer	-20°C ... 150°C	Calibration with black spotlight	1,2 K	Comparison with Standard Reference resistance thermometer with black spotlight



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Surface temperature sensor	-20°C ... 150°C	Calibration without tempered surface	1,5 K	Comparison with Standard Reference resistance thermometer of tempered surface
Temperature Data logger	5°C ... 50°C	in the temperature cabinet	0,28 K	Comparison with Standard Reference resistance thermometer
Temperature block calibrators	-100°C ... 0°C		0,33 K	Comparison with Standard Reference resistance thermometer
	>0°C ... 100°C		0,31 K	
	>100°C ... 200°C		0,31 K	
	>200°C ... 400°C		0,95 K	
	>400°C ... 1000°C		2 K	Comparison with Standard Reference thermocouple
Circulating Bath (in a defined useable volume)	-100°C ... 0°C	Calibration at defined positions in useable volume	0,29 K	Comparison with Standard Reference thermocouple
	>0°C ... 100°C		0,28 K	
	>100°C ... 200°C		0,28 K	
	>200°C ... 400°C		0,95 K	

RELATIVE HUMIDITY AND DEW POINT TEMPERATURE				LABORATORY
Humidity sensor, Data logger and transmitters (relative humidity in the humidity genera- tor with defined re- duced volume for ca- libration (flow box))	10%rF ... 30%rF	-10°C - 0°C	0,38%rF	2-pressure / 2-tem- perature humidity generator
	>30%rF ... 50%rF		0,40%rF	
	>50%rF ... 70%rF		0,54%rF	
	>70%rF ... 80%rF		0,66%rF	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Humidity sensor, Data logger and transmitters (relative humidity in the hu- midity generator (Usage of entire vol- ume for calibration))	>80%rF ... 90%rF	>0°C - 70°C	1,1%rF	
	10%rF ... 30%rF		0,20%rF	
	>30%rF ... 50%rF		0,25%rF	
	>50%rF ... 70%rF		0,44%rF	
	>70%rF ... 80%rF		0,58%rF	
	>80%rF ... 90%rF		1,1%rF	
	10%rF ... 50%rF	-10°C - 0°C	1,1%rF	2-pressure / 2-tem- perature
	>50%rF ... 80%rF		1,2%rF	
	>80%rF ... 90%rF		1,5%rF	
	10%rF ... 30%rF		0,46%rF	humidity generator
	>30%rF ... 50%rF		0,48%rF	
	>50%rF ... 70%rF		0,58%rF	
	>70%rF ... 80%rF	>0°C - 30°C	0,70%rF	
	>80%rF ... 90%rF		1,2%rF	
	10%rF ... 30%rF		0,78%rF	
	>30%rF ... 50%rF		0,79%rF	
	>50%rF ... 70%rF		0,87%rF	
	>70%rF ... 80%rF		0,95%rF	
	>80%rF ... 90%rF	>30°C - 50°C	1,3%rF	
	10%rF ... 30%rF		0,97%rF	
	>30%rF ... 50%rF		0,98%rF	
	>50%rF ... 70%rF		1,0%rF	
	>70%rF ... 80%rF		1,1%rF	
	>80%rF ... 90%rF		1,4%rF	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Dew point hygrometer Dew point temperature in humidity generator with defined reduced volume for calibration (flow box))	-35,9°Ctp ... -20,2°Ctp  -28,8°C ... -15,4°C -24,3°C ... -9,1°C -18,5°C ... -4,8°C -14,4°C ... -3,0°C -12,8°C ... -1,4°C -27,8°C ... 36,8°C  -20,1°C ... 44,5°C -15,4°C ... 54,8°C -9,1°C ... 62,0°C -4,8°C ... 64,9°C -3,0°C ... 68,0°C	10%rf ... 20%rf  >20%rf ... 30%rf >30%rf ... 50%rf >50%rf ... 70%rf >70%rf ... 80%rf >80%rf ... 90%rf  >20%rf ... 30%rf >30%rf ... 50%rf >50%rf ... 70%rf >70%rf ... 80%rf >80%rf ... 90%rf	27 mK  30 mK 57 mK 0,13 K 0,18 K 0,35 K  22 mK  25 mK 54 mK 0,13 K 0,18 K 0,35 K	2-pressure / 2-temperature humidity generator (Temperature range -10°C ... 0°C)  2-pressure / 2-temperature humidity generator (Temperature range >0 °C to 70°C)
<b>RELATIVE HUMIDITY AND DEW POINT TEMPERATURE</b> <span style="float: right;"><b>ONSITE</b></span>				
relative humidity hygrometer, data logger, transmitters	10%rf ... 90%rf	5°C - 50°C	1,8%rf	humidity generator
<b>PRESSURE</b> <span style="float: right;"><b>LABORATORY</b></span>				
Absolute pressure	0,03 bar ... 1,5 bar  >1,5 bar ... 5 bar  >5 bar ... 14 bar  >14 bar ... 70 bar		0,20 mbar  0,7 mbar 1,5 mbar 5,3 mbar	Pressure medium: Gas



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Negative overpressure	-1 bar ... <0,0 bar		0,20 mbar	
Negative and positive overpressure and differential pressure	-3,6 mbar ... 3,6 mbar		1,5 $\mu$ bar	
	-50 mbar ... 50 mbar		$0,11 \cdot 10^{-3} p + 2,0 \mu$ bar	
	-250 mbar ... 250 mbar		$0,11 \cdot 10^{-3} p + 5,0 \mu$ bar	
Negative and positive overpressure	0,0 bar ... 0,5 bar		80 $\mu$ bar	
	>0,5 bar ... 5 bar		0,70 mbar	
	>5 bar ... 14 bar		1,5 mbar	
	>14 bar ... 70 bar		5,3 mbar	
positive overpressure	0,0 bar ... 600 bar		0,07 bar	Pressure medium: oil/water
<b>PRESSURE</b>				<b>ONSITE</b>
pressure	-1 ... 20 bar relative		48 mbar	Pressure medium: gas
	0 ... 21 bar absolute		48 mbar	
	-0,4bar ... 0,4 bar		0,6 mbar	
	0 bar ... 600 bar		0,25 bar	Pressure medium: water
	-1 hPa ... 1 hPa		0,01 hPa	Pressure medium: gas
	-10 hPa ... 10 hPa		0,02 hPa	
<b>FLOW QUANTITIES</b>				<b>LABORATORY</b>
Anemometer 100mm	0,3 m/s ... 2 m/s	Probes of comparable construction	0,068 m/s	Calibration at flow path with comparison probe
	>2 m/s ... 5 m/s		0,12 m/s	
	>5 m/s ... 15 m/s		0,19 m/s	
Anemometer 60mm	0,3 m/s ... 2 m/s	Probes of comparable construction	0,043 m/s	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Anemometer 25mm	>2 m/s ... 5 m/s	Probes of comparable construction	0,071 m/s	
	>5 m/s ... 10 m/s		0,094 m/s	
	>10 m/s ... 20 m/s		0,15 m/s	
Anemometer 16mm	0,5 m/s ... 10 m/s	Probes of comparable construction	0,17 m/s	
	>10 m/s ... 20 m/s		0,33 m/s	
Anemometer 12mm	0,6 m/s ... 10 m/s	Probes of comparable construction	0,16 m/s	
	>10 m/s ... 20 m/s		0,27 m/s	
Anemometer triple probe	0,6 m/s ... 10 m/s	Probes of comparable construction	0,19 m/s	
	>10 m/s ... 20 m/s		0,37 m/s	
	0,1 m/s ... 2 m/s		0,087 m/s	
Anemometer heat wire	>2 m/s ... 10 m/s	Probes of comparable construction	0,37 m/s	
	>10 m/s ... 20 m/s		0,68 m/s	
	0,1 m/s ... 2 m/s		0,096 m/s	
Anemometer heat sphere	>2 m/s ... 5 m/s	Probes of comparable construction	0,12 m/s	
	>5 m/s ... 10 m/s		0,27 m/s	
	>10 m/s ... 20 m/s		0,40 m/s	
RATATIONAL SPEED	0,1 m/s ... 2 m/s	Probes of comparable construction	0,25 m/s	
	>2 m/s ... 5 m/s		0,36 m/s	
	>5 m/s ... 10 m/s		0,48 m/s	
				LABORATORY
Mechanical & Opti- cal	1 rpm ... 10 rpm		5,4 · 10 <sup>-3</sup> rpm	Mechanical and optical at rotational speed generator
	>10 rpm ... 100 rpm		50 · 10 <sup>-3</sup> rpm	
	>100 rpm ... 500 rpm		0,12 rpm	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Mechanical & Opti- cal	>500 rpm ... 1'000 rpm		0,28 rpm	optical simulation at functiongenerator
	>1'000 rpm ... 3'000 rpm		1,2 rpm	
	>3'000 rpm ... 6'000 rpm		1,5 rpm	
	>6'000 rpm ... 12'000 rpm		1,8 rpm	
Optical simulation	1 rpm ... 60 rpm		$0,53 \cdot 10^{-3}$ rpm	optical simulation at functiongenerator
	>60 rpm ... 600 rpm		$2,5 \cdot 10^{-3}$ rpm	
	>600 rpm ... 6'000 rpm		$2,6 \cdot 10^{-3}$ rpm	
	>6'000 rpm ... 60'000 rpm		$4,0 \cdot 10^{-3}$ rpm	
	>60'000 rpm ... 120'000 rpm		$7,0 \cdot 10^{-3}$ rpm	

DIMENSIONAL QUANTITIES				LABORATORY
Ring gauges / Plug gauges	1 mm ... 200 mm	VDI/VDE/DGQ 2618 Sheet 4.1	$0,8 \mu\text{m} + 1 \cdot 10^{-6} \cdot l$	$l =$ measured length
Length of plane-par- allel, spherical or cylindri- cal measuring sur- faces	0,05 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 4.4/19.1	$1,0 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	$l =$ measured length
Pin gauge	0,1 mm ... 30 mm	VDI/VDE/DGQ 2618 Sheet 4.2	$0,8 \mu\text{m} + 1 \cdot 10^{-6} \cdot l$	$l =$ measured length
Snap gauges	... 200 mm	VDI/VDE/DGQ 2618 Sheet 4.7	$0,8 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	$l =$ measured length
Thread plug simple pitch diameter	1,4 mm ... 200 mm nominal pitch: 0,3 mm ... 6 mm	VDI/VDE/DGQ 2618 Sheet 4.8	$3 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	$l =$ measured length
Thread ring simple pitch dia- meter	3 mm ... 200 mm nominal pitch: 0,5 mm ... 6 mm	VDI/VDE/DGQ 2618 Sheet 4.8	$3 \mu\text{m} + 3 \cdot 10^{-6} \cdot d$	$l =$ measured length



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Calipers for outside, inside and depth measurements	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 9.1	$22 \mu\text{m} + 28 \cdot 10^{-6} \cdot l$	$l$ = measured length
Depth gauge calipers	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 9.2	$22 \mu\text{m} + 28 \cdot 10^{-6} \cdot l$	$l$ = measured length
Height gauge calipers	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 9.3	$22 \mu\text{m} + 28 \cdot 10^{-6} \cdot l$	$l$ = measured length
Micrometer	0 mm ... 500 mm	VDI/VDE/DGQ 2618 Sheet 10.1	$2,5 \mu\text{m} + 12 \cdot 10^{-6} \cdot l$	$l$ = measured length
Micrometer head	... 50 mm	VDI/VDE/DGQ 2618 Sheet 10.4/19.1	$1,9 \mu\text{m} + 4,6 \cdot 10^{-6} \cdot l$	$l$ = measured length
Micrometer with dial	... 100 mm	VDI/VDE/DGQ 2618 Sheet 10.3	$1,9 \mu\text{m} + 4,6 \cdot 10^{-6} \cdot l$	$l$ = measured length
Lever-gauges measuring instruments (quick-action probes) for inside and external measurements	... 200 mm	VDI/VDE/DGQ 2618 Sheet 12.1/13.1	$5 \mu\text{m} + 6,8 \cdot 10^{-6} \cdot l$	$l$ = measured length
Dial indicator (dial gauge)	... 100 mm	VDI/VDE/DGQ 2618 Sheet 11.1	$3 \mu\text{m} + 1 \cdot 10^{-6} \cdot l$	$l$ = measured length
Dial comparator (precision pointer)	... 3 mm	VDI/VDE/DGQ 2618 Sheet 11.2	$0,6 \mu\text{m}$	
lever gauge		VDI/VDE/DGQ 2618 Sheet 11.3	$1 \mu\text{m}$	
Electronic length instruments: - inductive - incremental	... 10 mm ... 100 mm	VDI/VDE/DGQ 2618 Sheet 14.1/19.1	$0,6 \mu\text{m} + 1 \cdot 10^{-6} \cdot l$	$l$ = measured length
2-point internal micrometers	13 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 10.7	$1,9 \mu\text{m} + 4,6 \cdot 10^{-6} \cdot l$	$l$ = measured length
3-point internal micrometers	3 mm ... 150 mm	VDI/VDE/DGQ 2618 Sheet 10.8	$2,4 \mu\text{m} + 4,3 \cdot 10^{-6} \cdot l$	$l$ = measured length
Depth caliper with extension	0 mm ... 500 mm	VDI/VDE/DGQ 2618 Sheet 10.5	$2,5 \mu\text{m} + 12 \cdot 10^{-6} \cdot l$	$l$ = measured length
Height gauges	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 16.1	$0,67 \mu\text{m} + 2,3 \cdot 10^{-6} \cdot l$	$l$ = measured length



## SCS Directory

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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Flat / bevelled square	0 mm ... 600 mm	VDI/VDE/DGQ 2618 Blatt 7.1	1,1 $\mu$ m	
Straight edge	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Blatt 5.1	1,2 $\mu$ m	
Gauge blocks DIN EN ISO 3650 Central length	0,5 mm ... 100 mm	VDI/VDE/DGQ 2618 Sheet 3.1	0,09 $\mu$ m + 0,2 $\cdot 10^{-6} \cdot l$	$l$ = measured length
	100 mm ... 131,4 mm	VDI/VDE/DGQ 2618 Sheet 3.1	0,14 $\mu$ m + 0,2 $\cdot 10^{-6} \cdot l$	$l$ = measured length
Variation in length		VDI/VDE/DGQ 2618 Sheet 3.1	0,07 $\mu$ m	
<b>DIMENSIONAL QUANTITIES</b>				
Height gauges	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Blatt 16.1	0,67 $\mu$ m + 2,3 $\cdot 10^{-6} \cdot l$	$l$ = measured length
<b>3-DIMENSIONAL QUANTITIES</b>				
Gauges and reference gauges	Coordinate measuring machine with calibrated measuring volume of: X = 800 mm Y = 600 mm Z = 300 mm	tactile und optical measurement	related to defined size measurements of 100 mm	using coordinate measuring machine; measurement uncertainty estimation according VDI/VDE/DGQ 2617 Blatt 11
<b>Size:</b> diameter distance angle			tactile 0,9 $\mu$ m 1,0 $\mu$ m 0,0004°	optical 1,0 $\mu$ m 1,2 $\mu$ m 0,0012°
<b>Form:</b> straightness flatness roundness			2,2 $\mu$ m 2,2 $\mu$ m 2,7 $\mu$ m	0,7 $\mu$ m 1,7 $\mu$ m 1,7 $\mu$ m
parallelism symmetry coaxiality run out total run out			2,2 $\mu$ m 1,6 $\mu$ m 0,7 $\mu$ m 2,4 $\mu$ m 3,3 $\mu$ m	1,5 $\mu$ m 0,5 $\mu$ m 0,6 $\mu$ m 2,0 $\mu$ m 2,9 $\mu$ m
Position			1,1 $\mu$ m	1,1 $\mu$ m
<b>TORQUE</b>				
Torque hand-operated torque screwdriver / triggering / indicating	0,2 Nm ... 1000 Nm	DIN EN ISO 6789:2017	0,6 %, but not less than 1 Digit	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
<b>TORQUE</b>				<b>ONSITE</b>
Torque hand-operated torque screwdriver / triggering / indicating	0,2 Nm ... 1000 Nm	DIN EN ISO 6789:2017	0,8 %, but not less than 1 Digit	
<b>MECHANICAL QUANTITIES: SCALES</b>				<b>ONSITE</b>
Weighing Scales precision scale table scale table or floor scale	1 mg ... 500mg  >500 mg ... 100 kg	with weights at the scale installation site	0,03 mg  $2.5 \cdot 10^{-5}$	

Abbreviation	Signification
Onsite	on-site, calibration is done at the customer / installation site

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