Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER

State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0210

International standard:	ISO/IEC 17025:2017
Swiss standard:	SN EN ISO/IEC 17025:2018

PFIFFNER Instrument Transformers Ltd.
Testing Laboratory
Lindenplatz 17
5042 Hirschthal

Head:	Florian Elmiger
Responsible for MS:	Florian Elmiger
Telephone:	+41 62 739 28 28
E-Mail:	florian.elmiger@pmw.ch
Internet:	http://www.pfiffner-group.com
Initial accreditation:	11.01.1999
Current accreditation:	24.09.2020 to 23.09.2025
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 20.02.2024

Testing laboratory for instrument transformers and high voltage tests

Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Instrument transformers		
Current transformers	All tests for Um ≤ 550 kV (External test: Short-time current test – not part of this accreditation)	IEC 61869-1 IEC 61869-2 EN 61869-1 EN 61869-2 IEEE C57.13 IEEE C57.13.5 CAN/CSA-C61869-1 CAN/CSA-C61869-2 AS 61869.1 AS 61869.2 ABNT NBR IEC 61869-1 ABNT NBR IEC 61869-2

1) Scope of accreditation type A (fix)
2) Scope of accreditation type B (flexible)
3) Scope of accreditation type C (flexible)

Definition of flexibilty see SAS Document 741

STS Directory

Accreditation number: STS 0210

Group of products or materials, field of activity	**Principle of measurement [2] (characteristics, measuring ranges, type of test)**	**Test methods, remarks (national, international standards, in-house test methods)**
Inductive voltage transformers	All tests for Um ≤ 550 kV	IEC 61869-1 IEC 61869-3 EN 61869-1 EN 61869-3 IEEE C57.13 IEEE C57.13.5 CAN/CSA-C61869-1 CAN/CSA-C61869-3 AS 61869.1 AS 61869.3 ABNT NBR IEC 61869-1 ABNT NBR IEC 61869-3
Combined transformers	All tests for Um ≤ 550 kV (external test: Short-time current test- not part of this accreditation)	IEC 61869-1 IEC 61869-4 EN 61869-1 EN 61869-4 IEEE C57.13 IEEE C57.13.5 CAN/CSA-C61869-1 CAN/CSA-C61869-4 AS 61869.1 AS 61869.4 ABNT NBR IEC 61869-1 ABNT NBR IEC 61869-4
Capacitor voltage transformers	All tests for Um ≤ 550 kV	IEC 61869-1 IEC 61869-5 EN 61869-1 EN 61869-5 ANSI C93.1 CAN/CSA-C61869-1 CAN/CSA-C61869-5 AS 61869.1 AS 61869.5 ABNT NBR IEC 61869-1 ABNT NBR IEC 61869-5
Sensors		
Low-power passive voltage transformers	All tests for Um ≤ 550 kV	IEC 61869-1 IEC 61869-6 IEC 61869-11
Voltage transformers - / Voltage dividers for DC applications	All tests	IEC 61869-1 IEC 61869-6 IEC 61869-15

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Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Bushings		
Insulated bushings for alternating voltages > 1 kV	All tests for Um ≤ 550 kV	IEC 60137 EN 60137
Alternating-current circuit-breakers	Dielectric tests according chapter 7.2 Radio interference voltage (RIV) test according chapter 7.3 Resistance measurement according chapter 7.4 Continuous current tests according chapter 7.5 Routine tests according chapter 8	IEC 62271-1 IEC 62271-100
Alternating current disconnectors and earthing switches	Dielectric tests according chapter 7.2 Radio interference voltage (RIV) test according chapter 7.3 Resistance measurement according chapter 7.4 Continuous current tests according chapter 7.5	IEC 62271-1 IEC 62271-102
Procedure standards	Partial discharge measurement ≤ 700 kV (Peak/√2), 50 – 120 Hz ≤ 230 kV (Peak/√2), 16 $^{2}/_{3}$ Hz ≤ 800 kV DC	IEC 60270
	High voltage test techniques	IEC 60060-1 IEEE Std 4
	Tests with alternating voltage ≤ 700 kV (Peak/√2), 50 – 120 Hz ≤ 230 kV (Peak/√2), 16 $^{2}/_{3}$ Hz	
	Tests with direct voltage ≤ 800 kV DC	
	Tests with lightning-impulse voltage ≤ 1600 kV, 1,2 / 50 µs	
	Tests with switching-impulse voltage ≤ 1250 kV, 250 / 2500 µs	

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STS Directory

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Group of products or materials, field of activity	**Principle of measurement** [2] **(characteristics, measuring ranges, type of test)**	**Test methods, remarks (national, international standards, in-house test methods)**
Insulating oil	Wet tests ≤ 700 kV (Peak/√2), 50 – 120 Hz ≤ 1600 kV, 1.2 / 50 µs ≤ 1250 kV, 250 / 2500 µs ≤ 800 kV DC Puncture voltage test	IEC 60156

*) IEC 61869 replaces IEC 60044

In case of contradictions in the language versions of the directories, the German version shall apply.

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1) Scope of accreditation type A (fix)
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Definition of flexibilty see SAS Document 741