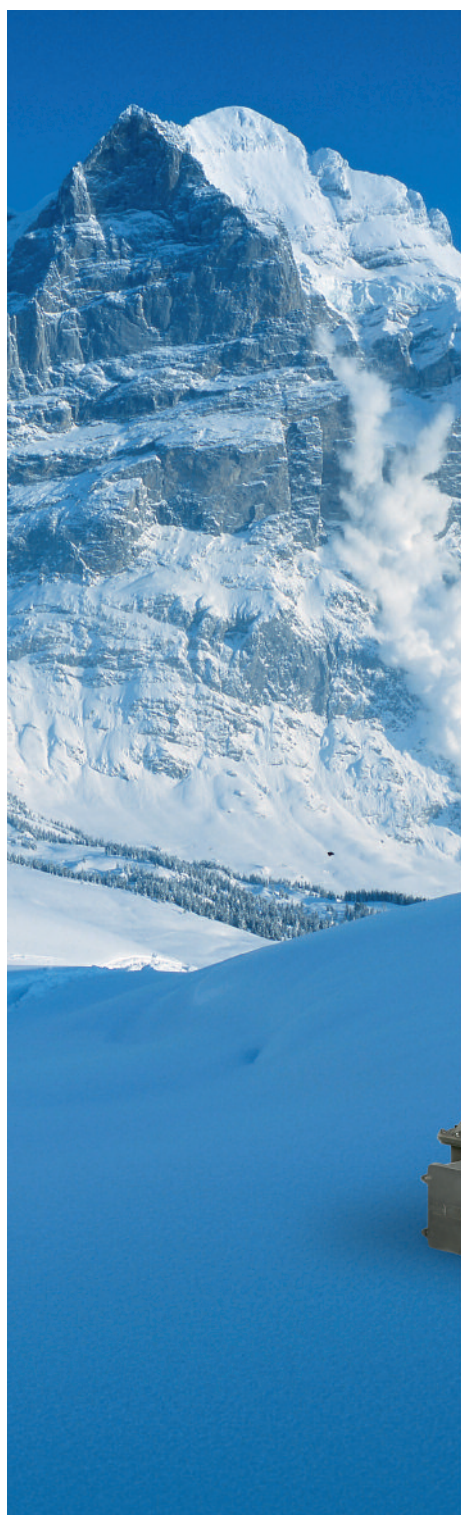


High voltage instrument transformers for outdoor operation



PFIFFNER has been producing instrument transformers for more than 80 years. The devices perform their tasks in electric plant – day and night, summer and winter. Our instrument transformers meet the requirements of the international customers and are designed for a service life of 40 years.

PFIFFNER instrument transformers for outdoor operation are available for voltages ranging from 24 to 550 kV and use the latest technology. The inner insulation is provided by high-quality paper/oil or insulating gas (SF₆). The standard composite insulators have a creepage distance of at least 25 mm/kV. Porcelain insulators are also available on request. The current transformers can be delivered with primary reconnection or secondary taps.

PFIFFNER transformers are free from partial discharges at operating voltage and guarantee long-term and safe operation.



1

Current transformer JOF 24T-123T

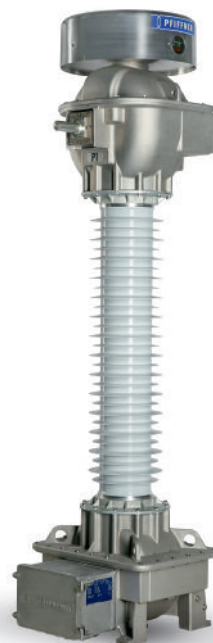
- tank design, oil-paper insulated
- robust, earthquake-proof design with low-lying centre of gravity
- explosion-proof housing
- hermetically sealed with highly flexible, temperature resistant membrane made of fluoro-elastomer (Viton®)
- maintenance-free



2

Current transformer JOF 72-245 JOF 245-550

- head design, oil-paper insulated
- explosion-proof housing
- hermetically sealed with metallic bellows in stainless steel
- maintenance-free



3

Combined transformer EJOF 24-170

- oil-paper insulated, current transformer in head design, voltage transformer in tank design
- outstanding ferro-resonance characteristics
- explosion-proof housing
- hermetically sealed with metallic bellows in stainless steel
- maintenance-free

Clearly designed and easily understandable primary reconnection:

- Changeover with just one link
- Only on one side of the transformer head
- Without mechanical movement of the primary conductor
- Internal primary windings, short-circuit tested, no environmental impact

[2, 3]



Easily understandable, easily readable oil-expansion indicator

Simple, robust display mechanism

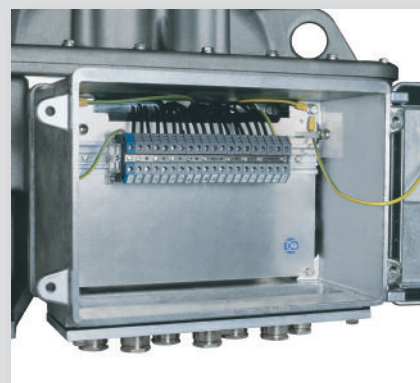
[2, 3, 4]



Generously-designed terminal box allows simple and safe connection

Watertight according to IP54, cover opens sideways (fixed on one side)

[1, 2, 3, 4, 5, 6]





4

Voltage transformer EOF 24–245

- oil-paper insulated
- outstanding ferro-resonance characteristics
- explosion-proof housing
- hermetically sealed with highly flexible, temperature resistant membrane made of fluoro-elastomer (Viton®) (up to EOF 72)
- hermetically sealed with metallic bellows in stainless steel (from EOF 123)
- maintenance-free



5

Voltage transformer EGF 245–550

- SF₆-insulated
- outstanding ferro-resonance characteristics
- low SF₆ pressure allows use down to -50 °C
- explosion-proof design (composite insulator, blow-out disc)
- maintenance-free



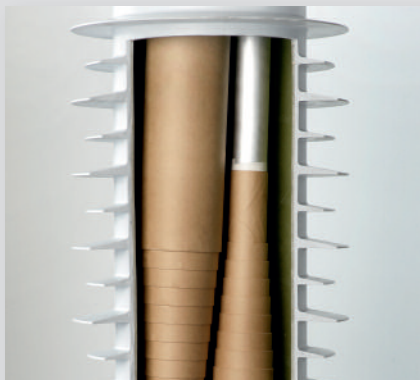
6

Voltage transformer ECF 72–550

- capacitive voltage transformer
- damper unit prevents ferro-resonance oscillations
- over-voltage limiter protects secondary installations against transients
- capacitor unit consists of mixed dielectrics
- hermetically sealed
- explosion-proof housing
- electromagnetic measurement unit with oil-paper insulation, hermetically sealed
- maintenance-free

Precision-designed bushing for uniform voltage distribution and prevention of partial discharges along the insulator

[2, 3, 4]



Best protection against relaxation oscillation thanks to low operating induction and optimised design of the core

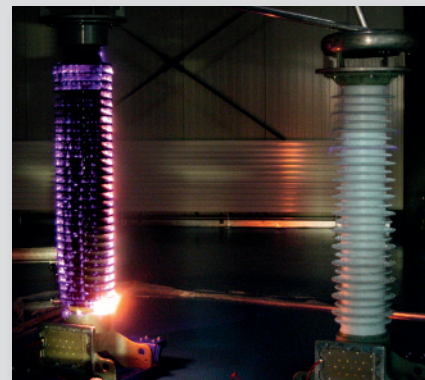
[3, 4, 5]



Silicone composite insulators for highest safety levels

Outstanding behaviour even in extreme rain tests (The composite insulator on the right-hand side of the illustration shows hardly any discharge effects)

[1, 2, 3, 4, 5, 6]





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PFIFFNER Instrument Transformers Ltd is the only instrument transformer manufacturer in Switzerland. This internationally successful, family-owned company employs around 200 employees in its main facility.

PFIFFNER offers highest quality, maintenance-free, long-life products and innovative solutions. With production facilities on three continents, we cater for the requirements of the particular locations and, in this way, emphasise our customer proximity. Our business philosophy includes a clear commitment to Europe as a production location.

This is why our employees identify themselves with our products and our customers. On the part of our customers, we enjoy their high esteem, loyalty and satisfaction. In this way, we stress the importance of our motto "true values".



HIGH VOLTAGE

MEDIUM VOLTAGE

LOW VOLTAGE