

YDSW series

Gas-insulated Transformer Systems



500kV/1A SF6 Test Transformer for GIS/CVT testing

SF6 insulated Test Transformers are especially designed for testing metal-clad switchgear (GIS) in the factory and in the field, and for testing the other substation equipment. It is also the portable and easy maintenance solution. The SF6 test transformers can be flanged directly to the GIS for testing which make the partial discharge test easy and quick. These systems are particularly suited for on-site tests of GIS after installation. In the factory, they are used to test sub-assemblies and components directly in the manufacturing line.

User Benefit

- Small and compact in structure
- Light and delicate
- Special design for long-distance transportation
- Direct connecting to the test object(GIS) by flange
- High safety for operating
- Large range of application with bushing for testing of "open" equipment
- Built-in HV measuring capacitor, standard capacitor, standard CT and PT.

Quality

SAMGOR quality assurance complies with ISO 9001. We have over 20 years experience in the field of high voltage testing. The electronic measurement and control devices are designed and manufactured by ourselves. The test system is protected for over-voltage, over-current and fast voltage transients. Damage at the fault area is minimized.



600kV/1.5A SF6 filled Test Transformer for GIS/CVT testing

Ambient Conditions for the AC Test Equipment

- Height above sea level:	≤1000 m
For every 100 m increasing on altitude the HV rating must be decreased by	%
- Relative humidity /non condensing conditions:	90 %
- Temperature averaged over 24 h for H.V. components	0 °C ~ + 30 °C
- Extreme temperatures for H.V. components:	- 5 °C~+ 40 °C
- Temperature for electronic controls	+ 15 °C~+ 25 °C



20kV/1A SF6 filled Test Transformer

The test system includes following main components:

- Regulating transformer
- Power source filter
- Compensating reactor
- Test transformer
- Coupling capacitor / HV divider / HV filter/
- Standard capacitor/ Standard capacitor divider
- Low voltage protection (TPU)
- Control system AC2000 or ACA-2000
- HV and grounding connecting between HV elements.

Options

- SF6-air bushing type and various connection or adaptation flanges between test transformer & bushing & coupling capacitor & test object.
- Specific base frames or containers for on-site testing.
- Standard CT/PT (Tap switch change)
- Additional HV connections
- Partial Discharge detectors
- Capacitance and power loss factor measuring bridges

Technical Data

These systems are usually customer oriented. The table below only gives some typical examples. Rated voltages between 10 and 800 kV and rated currents up to 4A are available.

For further information please contact:

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