

DRMO

Voltage Sensors for Air Insulated MV Facilities





Key Features

- Quality backed by more than 5 years of uninterrupted operation in the field.
- The **DRMO** sensors are supplied with BNC or TNC male connectors to use with standard coaxial cables and with a safety and reference grounding bolt terminal.
- Sensor output is protected by a gas discharge surge arrester.
- Easy installation and commissioning make it an ideal component for smart grid deployments in MV overhead distribution networks.

Essential Component for MV Distribution Automation Deployments

DRMO sensors provide high accuracy MV measurement for indoor and outdoor air insulated switchgear.

DRMO sensors are a must have device for distribution automation deployments in overhead and underground medium voltage networks. The compact design enables a perfect fit in MV indoor and outdoor air insulated switchgears.

The **DRMO** has 0.5% accuracy class, resistive low power voltage transformer (LPVT). The replacement of inductive voltage transformers reduces the MV monitoring and automation footprint.

Silicone rubber insulation provides excellent dielectric strength and mechanical performance in harsh environmental conditions.

High precision resistors used in the sensor guarantee that accuracy is stable and keep within limits in a wide range of ambient temperatures.

The electronic adaptation of impedance results in a optimal signal delivery to the IED.

Making the Smart Grid Real



Technical Information

Connection type	Phase-to-ground.
Use	Outdoor or indoor.
Um	24 kVrms (phase to phase).
Un	20 kVrms / √3
Connection type	Phase-to-ground.
Rated frequency	50 Hz / 60Hz.
Power consumption	1.33 W (at 20 kV / √3).
Dielectric strength (50 Hz/1 min)	50 kVrms
Impulse voltage (1.2 / 50 μs)	125 kV with 15(+) and 15(-) shots
Partial discharges	< 20 pC at 16.63 kVrms (1.2 Vmax/√3)
Impulse voltage of low voltage components (1.2 / 50 μs)	5 kV according to UNE-EN 60044-7
Rated voltage factor	ku = 1.9 (8h)
Creepage distance	685 mm
Resistive divider nominal ratio (1)	N = 10000 ± 0.5%
Angle	< 20 min for the operating temperature range
Accuracy	± 0.5% for the operating temperature range
Load impedance	ZI ≥ 10 MΩ and CI ≤ 400 pF (others on demand)
Temperature range	From -25°C to +60°C
Storage conditions	From -40°C to +70°C

Dimensions



ZIV Automation Headquarters