ORDERING INFORMATION

SF₆ GAS MONITORING

The Optimizer3 aids in the mandatory compliance reporting required by the EPA, resources boards, and other regulatory agencies by monitoring for SF₆ gas leaks and related indicators and automatically reporting any fugitive emissions.

SF6 GAS SENSOR PIPE FITTINGS

SF₆ gas sensors can be installed directly into the a pipe feeding the circuit breaker's pressure gauge using SF₆ gas sensor pipe fittings. All gas connections must be checked for leaks if this method is used.



Model	Description
OM-SAM	SF ₆ gas sensor pipe fitting for (1) sensor, Mitsubishi circuit breakers only
OM-SAM2	SF ₆ gas sensor pipe fitting for (2) sensors, Mitsubishi circuit breakers only
OM-SAA1	SF ₆ gas sensor pipe fitting for first sensor, ABB circuit breakers only
OM-SAA2*	SF ₆ gas sensor pipe fitting for second sensor, ABB circuit breakers only

^{*}For ABB circuit breakers, if two SF₆ gas density sensors are required, an OM-SAA1 must be installed in addition to the OM-SAA2.

SF₆ GAS DENSITY SENSOR

The SF₆ gas density sensor measures the true density of SF₆ gas using patented quartz oscillator technology. Temperature and density measurements are digitally transmitted over a two-wire, power-line-carrier interface.



Model	Description
DSDP	Digital SF ₆ gas density sensor, temperature & density, 10 ft cable
DSDP-20	Digital SF ₆ gas density sensor, temperature & density, 20 ft cable
DSDP-30	Digital SF ₆ gas density sensor, temperature & density, 30 ft cable
DSCC	1/2" NPT conduit fitting adapter

Specifications

- Density range: 0 to 60 grams per liter (kg/m³) SF6
- Temperature range: -40 to 85 °C
- Mounting thread: Male 3/8" BSP
- Seal: Neoprene O-Ring
- Accuracy: "1.8% of full scale max.; 1.0% of full scale typ.
- Temperature signal:
 - +/- 1°C at ambient temperature
 - +/- 3°C at -40 to 85 °C

- Output signal: Digital (frequency & pulse-width modulated)
- Supply voltage: 10 to 20 Volts DC
- Electrical connections: 2-wire
- Operating temperature -40 to 70 °C
- Operating pressure -1 to 20 Bar

SF6 GAS PRESSURE SENSOR

The SF_6 gas pressure sensor measures the temperature-compensated pressure of SF_6 gas. The temperature and the compensated pressure measurements are digitally transmitted over a two-wire, power-line-carrier interface.



Model	Description
PSDP	Digital SF ₆ gas pressure sensor, temp & pressure, 5 meter cable
OM-SC5	5 meter cable with 90 degree connector

Specifications

- Pressure range: 0 to 10 Bar Abs at 20 °C compensated
- Temperature range: -40 to 85 °C
- Mounting thread: Male 3/8" BSP
- Seal: Neoprene O-Ring
- Pressure accuracy:
 - +/- 1% of full scale range at 85 °C
 - +/- 2.2% of full scale range at -40 to 85 °C

- Temperature accuracy: +/- 3°C
- Output signal: Digital (frequency & pulse-width modulated)
- Supply voltage: 15 to 30 Volts DC
- Electrical connections: 2-wire
- Operating temperature -25 to 80 °C
- Operating pressure: 0 to 20 Bar absolute

SF₆ GAS DEW POINT TEMPERATURE SENSOR

The SF₆ gas dew point sensor measures the moisture content of SF₆ gas. This solid-state sensor converts the measured dew point temperature to a milliamp analog signal.



Model	Description
OM-DPS	Analog SF ₆ gas dew point temperature sensor, 5 meter cable
OM-SC5	5 meter cable with 90 degree connector

Specifications

- Temperature range: -60 to 20 °C
- Mounting thread: Male 3/8" BSP
- Seal: Neoprene O-Ring
- Accuracy: +/-2 °C
- Output signal: 4-20 milliamp DC
- Supply voltage: 10 to 32 Volts DC
- Electrical connections: 2-wire
- Operating temperature -50 to 60 °C

SF₆ GAS SENSOR FILL PORT ADAPTERS

SF₆ gas sensor adapters allow the range of sensors to be directly connected to a circuit breaker via the SF₆ gas fill port. Integrated check valves and O-Ring seals facilitate a tight connection, mitigating the risk of a gas leak.



Model	Description
OM-DN8XV	SF ₆ gas (2) sensor adapter, cross valve, DN8 coupling



Model	Description
OM-MTV	SF ₆ gas sensor adapter, tee valve, Malmquist x DN8 coupling



Model	Description
OM-M2TV	SF ₆ gas sensor adapter, tee valve, Malmquist x Malmquist coupling



Model	Description
OM-DN8TV	SF ₆ gas sensor adapter, tee valve, DN8 coupling



Model	Description
OM-DN20TV	SF ₆ gas sensor adapter, tee valve, DN20 coupling



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