ZMJ100PF
Density Monitor

LANSO

SF6 measuring



Description

With a special dial structure, when used outdoors, it can isolate the influence of sunlight on temperature compensation, improve the accuracy of the display, and avoid misoperation of the contacts.

Applications

- SF6 Gas Insulated Switchgear (GIS)
- SF6 Insulated Circuit Breaks
- SF6 Insulated Pole-Mounted Switch
- SF6 Insulation Transformer
- SF6 Insulation Mutual Inductor
- SF6 Insulated Busbar Systems

Product Features

- With temperature compensation device, measurement accuracy is higher
- Suitable for indoor or outdoor installation
- AISI 304 hermetically sealed stainless steel case
- AISI 316 parts in contact with gas
- Indicated values and signal outputs independent of installation altitude
- Design of electric contact switch to realize accurate and stable SF6 gas density monitoring function
- Up to four pairs of contact points can realize multiple options such as overpressure alarm, double alarm or double lockout, making the monitoring safer and more reliable
- The overlapping dial design eliminates the gap of the dial and avoids the influence of sunlight entering the meter on the Compensation element

Options

- Liquid filling
- Full scale indication value 1.0 level
- Power frequency withstand voltage 2.5kV, 50/60 Hz, 1min
- Wide temperature range -60° C to +60° C

Technical Data

Nominal Size:
100mm

Scale range:
-0.1 to 0.9MPa (customizable)

Accuracy:
(related to the measuring span; SF_6 in gas phase)

At 20° C:	Class 1.0 or 1.6
-40° C to 60° C:	Class 2.5

Degree of protection:
IP65

Ambient conditions:
-40° C to 60° C, Relative humidity ≤ 95%RH

Leakage rate:
$\leq 1 \times 10^{-9}$ Pa · m^3/s (Helium mass spectrometer)

Pressure connection:
M20 × 1.5, (customizable)

Location:
Bottom or back

Electrical connection:
Compact pluggable box with M20 × 1.5 cable gland
cable size 1.5mm^2 recommended, 2.5mm^2 maximum

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Insulation properties:
Insulation resistance: >100 MΩ (500 V DC)
Withstand voltage: 2kV, 50/60 Hz 1 min (to case)

Contact type:
Pointer driven magnetic snap action signal contacts;
80%Ag、20% Ni, 10μm Au plated

Impact rating:
50g (oil-filled), 30g (non-oil-filled)

Contact ratings:
30W/50VA, 1A max.
220VDC/380V 50/60Hz max.

Window:
Laminated safety glass

Weight:
1kg

Pressure element:
Bowden tube

Dimensions

