

ZMJ100PF Density Monitor

LANSO[®]

SF6 measuring



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; SF₆ 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:

≤ 1 × 10⁻⁹ Pa · m³/s (Helium mass spectrometer)

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

Pressure connection:

M20 × 1.5, (customizable)

Location:

Bottom or back

Electrical connection:

Compact pluggable box with M20 × 1.5 cable gland

cable size 1.5mm² recommended, 2.5mm² maximum

ZMJ100PF Density Monitor

LANSO[®]

SF6 measuring

Insulation properties:

Insulation resistance: >100 M Ω (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, 10 μ m Au plated

Impact rating:

50g (oil-filled), 30g (non-oil-filled)

Contact ratings:

30W/50VA, 1 A max.

220VDC/380V 50/60Hz max.

Window:

Laminated safety glass

Weight:

1kg

Pressure element:

Bowden tube

Dimensions

