Density monitoring system

Model: P580 series

Spec. sheet no. PD05-09

Service intended

P580 series are designed to monitor the gas density of closed SF6 tank (for switchgear). It is capable of the measuring real time status of SF6 gas density. These series are equipped with the relay contact which has the three configurable independent units to sense and measure the instantaneous pressure rise.

Display

Analog indicator, operation and alarm status LED

Accuracy

±1.0% at ambient temperature +20°C (Indicator) ±2.5% at ambient temperature -20°C / +60°C (Indicator) ±0.25% at ambient temperature 0°C ~ +50°C (Current output)

Scale range

-0.1 ~ 0.1 MPa to -0.1 ~ 1.2 MPa

Working temperature

Ambient : $-20 \sim 65^{\circ}$ C (Gas phase) Storage : $-50 \sim 60^{\circ}$ C maximum

System configuration

HART communication

Degree of protection

EN60529/IEC529/IP67

Standard features

Mechanical

Pressure connection

Stainless steel (316SS)

Element

Stainless steel (316SS) C-type bourdon tube

Case and cover

Stainless steel (304SS) Bayonet type

Window

Safety glass

Movement

Stainless steel (304SS)
Bimetal link (Temperature compensation)

Pointer

Black painted aluminium alloy

Process connection

G1/2"

Helium leak rate

Tested to confirm leakage rates of less than 10-8 mbar_L/sec





Electrical

Input power and current consumption

12 ~ 36 V DC input, Max. 60 mA@DC 24 V

Display

Operating and alarm status LED

Parameter input

HART configurator

Output

Current output (4 \sim 20 mA, DC) One instantaneous pressure rising alarm relay Three pressure limit alarm relay

Relay contact rate

Contact resistance : Max. $70M\Omega$

Contact rating: 2 A 30 VDC, 0.5 A 125 DC (Res.load)

Max switching voltage : 220 VDC / 250 VAC Max switching power : 60 W / 62.5 VA



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1. Base model

P580 Gas density monitoring system

2. Contact

- 1 Single contact
- 2 Double contact (seperated circuit)
- 3 Triple contact (seperated circuit)

3. Type of mounting

- A Bottom connection, direct
- B Bottom connection, case mounting plate
- G Lower back connection, direct
- L Lower back connection, 4 hole bracket

4. Accuracy

3 ± 1.0 % of full scale at ambient temperature ± 0.25 % of full scale at ambient temperature 0°C ~ 50 °C (current output)

5. Connection type

EI G1/2"

6. Unit

- **H** bar
- I Mpa
- **J** kPa

7. Range

- **007** -0.1 ~ 0.15 MPa
- **014** -0.1 ~ 0.9 MPa
- 029 -0.1 ~ 0.3 MPa
- **030** -0.1 ~ 0.4 MPa
- **031** -0.1 ~ 0.6 MPa
- 000 Special range

8. Pressure connection material and dial colors

7 316SS and 5 colors

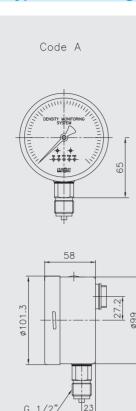
9. Option

- 0 None
- 1 Special requirement

1	2	3	4	5	6	7	8	9	
P580	2	В	3	EI	Н	014	7	0	Sample ordering code

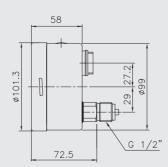


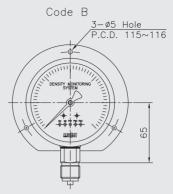
P580: Type of mounting

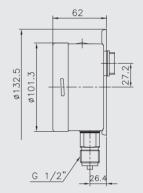












Code L

