VAISALA

DPT145 Multiparameter Transmitter for SF6 Gas



The Vaisala Multiparameter Transmitter DPT145 with the DILO DN20 connector.

The Vaisala Multiparameter Transmitter DPT145 for SF6 Gas is a unique innovation that enables online measurement of dew point, pressure, and temperature. It also calculates four other values, including SF6 density. The DPT145 is especially well suited for integration into OEM systems.

Online Reliability

Online dew point measurement combined with pressure measurement provides an excellent assessment of the condition of the SF6 insulation. Sudden and minor leakages are immediately detected by the direct normalized pressure measurement, while online dew point measurement alerts the user to moisture issues, which can weaken the insulation properties of SF6 and cause rapid deterioration. With the DPT145, it is also easy to build a redundant solution for multiple parameters.

Savings Across the Board

A single transmitter, instead of several, saves time and money across the

board, from investment to installation, operation and servicing. Lower assembly costs, fewer cables and connectors, minimized need for on-site visits and field operations - all these translate into cumulative savings. The long calibration interval results in further savings.

Risk-Free, Greener Solution

Online measurement enables gas trends to be followed via a data collection system, making monitoring fast, risk-free, and accurate. Using one instrument for monitoring seven different parameters means also

Features/Benefits

- First transmitter to offer online measurement of seven SF6 parameters in one unit
- Measured parameters: dew point, pressure, temperature
- Calculated parameters: SF6 density, normalized pressure, dew point in atmospheric pressure, ppm
- Saves time and money across the board, from investment and installation to operation and servicing
- More reliable assessment of the condition of SF6 insulation due to online measurement
- Long calibration interval of years

fewer mechanical connections and reduces the risk of leaks. Monitoring is environmentally friendly because there is no need for sampling - no SF6 gas is released into the atmosphere.

The Fruit of Experience

Vaisala has over 70 years of extensive measurement experience and knowledge. The DPT145 brings together the proven DRYCAP® dew point sensor technology and BAROCAP® pressure sensor technology in one package, providing an innovative and convenient solution for monitoring SF6 gas.



The DPT145 with the weather shield.

Technical Data

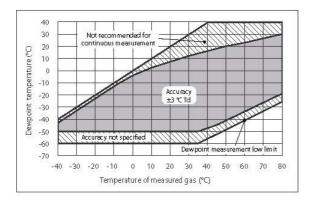
Measured Parameters	
Dewpoint	-50+30 °C (-58+86 °F)
Pressure, absolute	1 10 bar (14.5 145 psi)
Temperature	-40+80 °C (-40+176 °F)

Calculated Parameters

Pressure, normalized to 20 °C (68 °F)	1 12 bar (14.5174 psi)
SF6 or SF6/N2 mixture density	0100 kg/m³
ppm moisture, by volume	4040 000 ppm
Dewpoint, converted to atmospheric	
pressure	-65 +30 °C (-85 +86 °F)

Performance

Dewpoint accuracy	±3 °C (±5.4 °F), see graph below
Dewpoint stability	typical drift < 2 °C (3.6 °F) /5 years
Pressure accuracy at 23 °C (73.4 °	°F) ±0.4 %FS
Pressure temperature dependence	±0.1 %FS/10 °C (18 °F)
Pressure stability	typical drift < 1 %FS /5 years
Temperature accuracy	
040 °C (+32+104 °F)	±0.5 °C (± 0.9 °F)
-4080 °C (-40+176 °F)	±1 °C (± 1.8 °F)
Density accuracy (pure SF6, 1 1	0 bara)
040 °C (+32+104 °F)	±1 %FS
-40+60 °C (-40+140 °F)	±2.2 %FS
PPM accuracy, typical (51000 ppm	$\pm (7 \text{ ppm} + 15\% \text{ of reading})$
Sensor response time:	
Pressure response time	<1s
Dewpoint response time* 63%	[90%] at 20°C and 1 bar
-50 -> -10 °C Tdf	5 s [10 s]
-10 -> -50 °CTdf	10 s [2.5 min]
* system equilibrium related resp	oonse time is typically longer



DPT145 Dewpoint Measurement Accuracy



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Operating Environment

Operating temperature of electronics	40 +60 °C (40+140 °F)
Operating Pressure	0 50 bar (0725 psi)
Relative humidity	0100 %
Measured gases	SF ₆ ,SF ₆ /N ₂ mixture

Outputs

Digital output	RS-485, non-isolated, Vaisala protocol
Connector	4-pin M8

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2028 VDC in cold temperatures (4020 °C (40 4 °F)) Supply current, during normal measurement 20 mA during self-diagnostics max. 300 mA pulsed Housing material AISI316L Housing classification IP65 (NEMA4) Weather shield to be used for continuous outdoor installations Storage temperature range transmitter only 40 +80 °C (40+176 °F) shipment package -20 +80 °C (4+176 °F) Mechanical connection DILO DN20, ABB Malmkvist, or Alstom G1/2° compatible connector Every connection is helium leak tested at the factory. Dimensional drawings See the document B211165EN-A Weight (with DILO adapter) 765 g (27.0 oz) Complies with EMC standard EN61326-1, Electrical equipment for measurement, control and laboratory use - EMC requirements; Industrial environment, Tested levels EN/IEC 610004-2, Electrostatic Discharge 8kV con / 15kV air EN/IEC 610004-4, RF field immunity 10V/m (80MHz-4.2GHz) EN/IEC 610004-5, Surge ±2kV power line to ground / ±1kV signal Line to ground and power line to line EN/IEC 610004-6, Conducted RF Immunity 10Vemf power line and digital output Mechanical vibration EN/IEC 60068-2-6, Fc Sinusoidial vibration ± 6 g, 5-500 Hz sweep	Operating voltage	15 28 VDC
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EN/IEC 60068-2-6, Fc Sinusoidial vibration ± 6 g, 5-500 Hz sweep		and digital output
	Mechanical vibration	
60 min/axis,3-axis	EN/IEC 60068-2-6, Fc Sinusoidial v	ibration 👘 ± 6 g, 5-500 Hz sweep
		60 min/axis,3-axis

Connection cable for the MI70/DM70 hand-held 219980 219690 USB connection cable Protection plug for connector 218675SP 1.5 m Shielded PUR cable with 90° connector 231519SP 3m Shielded PUR cable with 90° connector 231520SP 5 m Shielded PUR cable with 90° connector 231521SP 10 m Shielded PUR cable with 90° connector 231522SP 3.0m Shielded FEP cable with straight connector 226902SP Weather shield ASM210326SP

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