

SF₆ Analyzer 973



Reliable SF₆ Humidity and Purity Measurement

The RH Systems Model 973-SF₆ dew point mirror was specifically designed for measurement of humidity and SF₆ purity in gas insulated switchgear systems. Humidity measurement data is displayed in ppm_v, ppm_w and dew/frost point at either system pressure or standard pressure. Purity measurement is displayed directly in % volume SF₆. Both the humidity and purity measurements utilize accurate and reliable condensation techniques.

Gas Recovery

The 973-SF₆ is equipped with a gas recovery system that stores the sampled gas during the measurement process in its internal storage tank. After completion of the measurement, the stored gas may be pumped back into the original compartment or into another container. Starting and ending system pressures are also measured.

Easy, Automated Usage

User configurable via the full color active matrix LCD touch screen, the 973-SF₆ may be configured for measurement of humidity, % volume SF₆, or both, with either automatic or manually initiated pump back. Using the bi-directional RS-232 communications port, all measurement data may be easily transferred into a PC for electronic storage and report generation.

Verifiable Calibration

Easily check the calibration at any time using the built-in Ice Test function which provides instant verification of system accuracy and integrity.

Connect and Go

The system is supplied ready for immediate use complete with industry standard quick connect fittings and sampling tube.

Model:	973-SF₆	
Measuring range:		
Frost/Dew Point	-55...+20°C at atmospheric pressure	
Humidity content by volume	20...20,000 ppm _v	
Humidity content by weight	2.5...2500 ppm _w	
% Volume SF ₆	80...100%	
Pressure	0.1...30 bar abs.	
Accuracy:		
Frost/Dew point	±0.5°C	
ppm _v /ppm _w	±6% of reading	
% Volume SF ₆	±0.5%	
Pressure	0.2% FS	
Reproducibility:		
Frost/Dew Point	± 0.2°C	
% Volume SF ₆	± 0.3%	
Pressure	0.1% FS	
Thermoelectric Mirror cooling:	3-stage	
Cooling:	Air	
Display:	Active Matrix Color Graphic LCD	
Digital I/O:	RS-232	
Gas couplings:	Quick connect fitting	
Mirror temperature sensor:	PRT-100	
Sample gas pressure:	1...30 bar	
Sample gas flow rate:	0.5...1 l/min	
Operation temperature:	-10...+40°C	
Storage temperature:	-20...+50°C	
Ambient humidity:	90% RH max., non condensing in operation	
Voltage:	100...240 VAC, 50/60 Hz	
Power consumption:	200 Watt	
	Instrument	with transport case and accessories
Width:	440 mm	624 mm
Height:	155 mm	305 mm
Depth:	410 mm	495 mm
Weight:	16.5 kg	32 kg

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