

## Dew Point Mirror 973-A



### Reliable SF<sub>6</sub> Humidity Measurement

The RH Systems Model 973-A dew point mirror was specifically designed for measurement of humidity in gas insulated switchgear (GIS) systems. Humidity measurement data is displayed in PPMv, PPMw and dew/frost point at either GIS pressure or standard pressure. Based on the chilled mirror principle, the 973-A ensures direct and accurate humidity measurement with minimal gas loss.

For %Volume SF<sub>6</sub> purity measurement and built-in gas recovery system, see the RH Systems 973-SF<sub>6</sub>.

### Full Color Touch Screen

The system uses a full color active matrix liquid crystal display with an integral touch panel. It has a high contrast ratio and a wide viewing angle for easy readability. Data is displayed in large easy to read fonts. Using the on screen buttons and menus, you can easily configure each line of the display for a variety of humidity, and pressure parameters that may be viewed in either SI or non-SI units.

### Easy, Automated Usage

The touch of a button starts the fully automated SF<sub>6</sub> humidity measurement process. At the conclusion of the measurement, the data is stored on the front panel display. A valve also closes to stop the flow of gas, preventing unnecessary escape of additional SF<sub>6</sub> into the atmosphere. The measurement data may be easily transferred into a PC via RS-232 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 complete and ready for immediate use with industry standard quick connect fittings, sampling tube, and built-in pressure regulator, pressure sensor, flow meter, and control valve.

<b>Model:</b>	<b>973-A</b>
Measuring range: Frost/Dew Point PPMv Range	-55...+20°C at atmospheric pressure 10 ...20,000
Accuracy: Frost/Dew point PPMv	±0.5°C ±6% of reading
Reproducibility: Frost/Dew Point PPMv	± 0.2°C ± 3% of reading
Measuring Mode:	Automatic, with gas shutoff
Thermoelectric Mirror cooling:	3-stage, 80°C depression
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 flow rate:	0.5 l/min
Sample gas circuit:	PTFE (Teflon) and Stainless Steel
Operation temperature:	-10...+40°C
Storage temperature:	-10...+40°C
Ambient humidity: Instrument	90% RH max., non condensing in use
Voltage:	100...240 VAC, 50/60 Hz
Power consumption:	200 Watt
Width:	440 mm (490 mm with transport case)
Height:	155 mm (360 mm with transport case)
Depth:	410 mm (650 mm with transport case)
Weight:	13 kg (25 kg with transport case)

We reserve the right to change design or technical data without notice.

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