

## Dew Point Mirror 573



### Accurate and Flexible Measurement Solution

The 573 Dew Point Mirror is a high performance 19" rack format instrument with an integral measurement head, pressure sensor, sample pump and flow meter for continuous precise monitoring of dew/frost point or absolute moisture variables in a wide range of applications.

### Configurable Sample Circuit

The 573 sampling circuit can be user adapted to suit challenging installations. Measurement head and sample tube heating, steam trap connection points and external connections for auxiliary sampling pump and flow meter provide engineers with all possible configuration options.

### Full Color Touch Screen

The instrument features a full-color active matrix liquid crystal touch screen with a high contrast ratio and a wide viewing angle for easy readability. Using the on screen buttons and menus, you can easily configure each line of the instrument display for a variety of humidity, temperature, and pressure parameters that may be viewed in either SI or non-SI units. A simple touch of a button toggles any parameter between large font numeric or graph format with configurable axis.

### Dew/Frost Determination

The 573 may be configured for measurement of dew point, frost point, relative humidity, and other humidity parameters. The ForceFrost™ feature ensures reliable differentiation between super-cooled dew and frost with a user definable temperature threshold.

### Verifiable Calibration

Easily check the calibration at any time using the built-in Ice Test function, providing instant proof of system stability and calibration integrity.

### Connect and Go

The system is supplied ready for immediate use complete with internal sample pump, mechanical flow meter, pressure sensor and external temperature probe. PC connectivity for remote data collection is easy with the simple yet robust protocol of the bi-directional RS-232 port. Two user configurable analog outputs provide for connection to existing data acquisition systems.

### Compatible

The 573 has been designed to be a drop in replacement for DP3 and DP30 instruments. Mechanical dimensions, features, sample handling and electronic compatibility provide users of these classic instruments with access to the advanced user interface and improved performance offered by the latest digital instruments.

Specifications:	573S3	573H
<b>Measuring range:</b>		
Frost/Dew Point	-60...+20°C	-30...+70°C <sup>(see note 1)</sup>
Temperature	-50...+100°C	-50...+100°C
% RH @ 20°C	0.1...100%	1.5...100%
Mixing ratio	10...20'000 ppm <sub>v</sub>	400...40'000 ppm <sub>v</sub>
Inlet pressure	0...2.5 bar	0...2.5 bar
<b>Instrument features:</b>		
Optimum Response Injection System	Yes	No
Head heating	No	Yes (max 85°C)
<b>Accuracy:</b>		
Frost/Dew Point	± 0.1°C	
Temperature	± 0.1°C	
<b>Reproducibility:</b>		
Frost/Dew Point	± 0.05°C	
Temperature	± 0.05°C	
<b>Standard Features:</b>		
Digital I/O	RS-232	
Thermoelectric mirror cooling	3-stage	
Temperature measurement	External PRT on 3 meter cable	
Auxiliary connections	Water cooling, Flow meter and internal sample pump bypass loops.	
Internal gas tubes	Stainless steel/FEP	
Gas connections	Swagelok <sup>®</sup> fittings 6mm or ¼"	
Mechanical flow meter	0...1 l/min with adjustment valve	
Power Cable	2.5 meter	
<b>Options and Accessories.</b> <sup>(see note 2)</sup>		
Heated sample tube	Heated sample inlet tube with controller (for 573H only)	
Steam Trap	Steam trap for sample outlet	
Auto drain	Auto drain valve for steam trap	
Transport case	Hard-shell foam-lined transport and storage container	
Pressure upgrade	10 bar pressure capability	
Analog Outputs	User programmable 2x 4..20 mA or 2x ±10 VDC	
<b>Additional Information:</b>		
Operation temperature	-10...+40°C	
Voltage	115/230 VAC, 50/60 Hz	
Power consumption	200 Watt	
<b>Dimensions:</b>		
Width	342 mm	
Height	133 mm	
Depth	446 mm	
Weight	10 kg	

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

**Notes:**

- 1) External heated sample tube and outlet steam trap required for dew points above ambient temperature.
- 2) Options and Accessories must be ordered specifically. They are **not** included in the standard features of the instrument.