

# RH-300

A Compact, High-Resolution Water Vapor Analyzer



# The RH-300 Water Vapor Analyzer

The RH-300 is a flow-through water vapor analyzer that allows in-line measurement of %RH and is capable of H<sub>2</sub>O measurement in a range of applications from respirometry to industrial gas monitoring. Unlike other water vapor analyzers, the RH-300 measures %RH and also displays dewpoint and water vapor pressure.



## Water Vapor Dilution Compensation

Water vapor dilution significantly affects oxygen concentration readings. The RH-300 can be used to mathematically compensate for water vapor dilution and eliminates the need for scrubber chemicals.

## Digital, 2-line alphanumeric display

The RH-300 has a display and control knobs that allow the user to span, calibrate, and change multiple settings at the analyzer.

## Three year warranty

Sable Systems instruments are warranted to be free of defects in material or workmanship for a period of three (3) years from date of purchase. See website for warranty policy.

## Lifetime Technical Support

Our technical support team will help you overcome any challenges you may face with equipment setup as well as provide advice and assistance on future applications.

## Specifications:

**Sensor Type:** Thin-film capacitive

**Range:** 0-100%RH

**Accuracy:** H<sub>2</sub>O: 1% typical 0-95%RH, better than 2% 95-100%RH, 0.5 °C dewpoint

**Resolution:** 0.001%RH, 0.01° dewpoint,

**Drift:** < 0.01%RH/hr (At constant temperature with constant N<sub>2</sub> flow at 50 mL/min)

**Weight:** 2lbs/1kg (4.5lbs/2kg with packaging)

**Dimensions:** W: 7in/18cm, H: 4in/10cm, D: 7in/18cm

**Power Requirements:** 12-15 VDC nominal, 175-250mA consumption; universal AC adapter supplied

**Flow Rate:** 5-2,000mL/min (5-500mL/min recommended)

**Analog Outputs:** One (1) 0-5V BNC user selectable for %RH, dewpoint (°C, °F), water vapor pressure (kPa, ug/mL)

**Digital Outputs:** RS-232 (serial)

**Operating Conditions:** 0-50 °C, non-condensing

## Optional Configurations:

**Remote Sensor:** Allows flow-through sample to be taken up to 25' from instrument.

**Connectors:** A variety of external gas connectors and fittings are available to meet your needs. Call for more information.

## Contact Sable Systems.

We encourage you to discuss your application with us.

**Phone:** 800-330-0465 (toll-free) / 702-269-4445

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**On the Web:** [www.sablesys.com](http://www.sablesys.com)

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