

Q-Sense Humidity Module 401



● The Humidity Module is an optional module compatible with both the Q-Sense E1 and E4 systems. The module has a GORE™ membrane that separates a small air pocket above the sensor crystal from a flow system for liquid. By using different saturated salt solutions above the membrane, the relative humidity in the air above the sensor can rapidly be changed and controlled without using other equipment.

The technical design enables measurements of vapor uptake and release from thin films coated on the sensor. Measurements are conducted in two steps; first your film of interest is applied to the sensor by, for example, spin-coating. In the next step, the coated sensor is placed in the chamber and vapor uptake or release is measured. A typical application is to measure swelling of polymer or cellulose films. ● ● ●

● SPECIFICATIONS: QHM 401

Sensor crystals	Compatible with all Q-Sense 14 mm sensor crystals
Internal volume	Air pocket: 100 mm ³ between the crystal and the membrane Liquid flow system: 120 µl from inlet to outlet above membrane
Type of measurements	Vapor sorption / desorption
Materials exposed to liquid	Viton® (O-ring), titanium, membrane
Cleaning	All parts may be disassembled for separate cleaning
Dimensions	Height: 35 mm Width: 35 mm Depth: 63 mm

Specifications subject to change without notice

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