AWTHERM WATER ACTIVITY METER





STABLE TEMPERATURE YIELDS PRECISE MEASUREMENTS.

- ROTRONIC HYGROMER® IN-1
- Highest precision through exact stabilization of temperature
- Wide temperature-control range
- Excellent reproducibility
- Excellent long-term stability
- Variable size of sample container
- Reference probe exchangeable for calibration or cleaning
- Quickest measurements with the AwQuick function
- Simple operation via Touch Interface
- Conforms to ISO 21807 / EMC 2008/108/EC / IEC EN 61010-1:2010







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TECHNICAL INFORMATION

Temperature-stabilized measurement

With AwTherm, ROTRONIC offers a professional, high-end laboratory unit for temperature-stabilized measurement of water activity in the foodstuffs, cosmetics, or pharmaceutical industries.

The wide control range permits measurements to be integrated directly in the tempered manufacturing or storage process. Water-activity measurement reacts very sensitively to variances in temperature. Stabilizing the temperature prevents imprecise results due to external temperature influences.

Exchangeable measuring head

A further advantage of AwTherm is that the measuring head is removable, which means that the probe can be temperature-calibrated or adjusted to give high precision.

User-friendliness

The AwTherm shows its paces in island-operation mode, with its simple handling and clarity. No laboratory should be without the device in conjunction with the ROTRONIC HW4 software

Why measure water activity?

The free water in a product influences its microbiological, chemical and enzymatic stability. If there is too much free water present, the products spoil; too little water can be detrimental to the product characteristics.

Water activity	Contaminants
aw = 0.910.95	Many bacteria
aw = 0.88	Many yeasts
aw = 0.80	Many mildews
aw = 0.75	Halophile bacteria
aw = 0.70	Osmiophile yeasts
aw = 0.65	Xerophile mildew

Measuring water activity provides useful information about characteristics such as cohesion, storage lifetime, clotting or pourability of powders, tablets, etc., or the adhesive properties of coatings.

Temperature-stabilized water-activity
measurement
140 °C (34107 °F)
0.0051.000 aw
±0,005 aw (1030°C)
±0.1 °C (±0.18 °F)
110230 V / 5060 Hz
8-line LCD with touch operation
Variable (14 mm / 40 mm)
≤2 A
060 °C (32140 °F)
±0.01 °C/min (±0.018 °F/min)
<0.1 °C (<0.18 °F)
Via USB port
Yes (v 3.6.0 and higher)
Yes
Micro USB
Aw & Temperature:
HG2-S (probe removed with AwT-CAL)
Aw:
ROTRONIC humidity standards (via HW4)
Yes
HYGROMER® IN-1
Annual calibration (recommended)
<0.01 aw/year
Pt100, DIN 1/3 Class B
ISO 21807
EMC 2004/108/EC
IEC EN 61010-1:2010
IP21
PC / ABS
400 x 180 x 180 mm
AwT-PS14: Ø46 x 14 mm
A T DC (0 0) () (0
AwT-PS40: Ø46 x 40 mm

Would you like more information?

You will find a complete and up-to-date overview of the products on our Internet page at www.rotronic.com.

