AW TESTER

PCE-WAM 20



- **Fast measuring function**
- **Adjustable measuring time**
- **1 to 4-point calibration**
- **Memory: 5,030 data records**
- **Data transfer to PC software**
- **Power supply via USB-C or battery**

The portable AW tester enables the precise determination of water activity (aw) in various products. It measures water activity in the range from 0 to 1.0000 aw and temperatures from -10 to 50°C / 14 ... 122°F. The aw value indicates the proportion of free, unbound water in organic products such as foodstuffs or pharmaceuticals and is referred to as water activity. This value is crucial for assessing the shelf life and quality of products, as it influences the growth of microorganisms, molds and yeasts. In contrast to the total moisture content of a product, the Aw value is largely responsible for microbial stability.

The AW tester delivers highly accurate results within just 3 to 5 minutes and works with precise sensors that ensure an accuracy of ±0.015 aw in the temperature range of 10 to 30°C / 50 ... 86°F. It has three different measurement modes: normal mode, fast mode and continuous display mode. Calibration can be performed with one or more points (two, three or four points). The 2.8" TFT colour display ensures clear and intuitive operation, while the portable design and supplied instrument case allow flexible use in the field.

The device also offers extensive data management functions and can store up to 5,030 data records. The measurement results can be easily transferred to the software and output via the micro USB port. Power is supplied either via a 5V USB cable or four AA batteries, making it ideal for different environments and longer test times.

Specification

Water activity	
Measuring range	0 ... 1 aw
Resolution	0,0001 aw
Accuracy	±0.015 aw (10 ... 30°C)
Temperature	
Measuring range	-10 ... +50 °C
Resolution	0,01 °C
Accuracy	±0.1 °C

General technical data	
Number of measuring channels	1
Cable length	1,8 m
Display type	TFT-LCD-Display
Display size	2,8 Inch
Storage medium	Internal memory
Storage capacity	5030 Data records
Interface	USB-C
Sensor	Capacitive
Calibration	1 ... 4 points
Menu language	English (GB), English, French, Spanish, Chinese
Protection class (device)	IP20
Power supply	5 V DC
(Rechargeable) battery	4 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Operating conditions	-10 ... 40 °C , 0 ... 90 % RH
Storage conditions	-10 ... 40 °C , 0 ... 90 % RH
Dimensions (L x W x H)	217 x 100 x 35 mm
Weight	280 g

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