DUO: Water Activity + Moisture Content

Get two measurements from one sample—simultaneously

Request a quote   Contact us

AQUALAB 4TE DUO

All AQUALAB instruments now come with DUO functionality so you can measure water activity and get moisture content simultaneously from a single sample. To use the DUO function, you need a product-specific calibration model for each of the products you want to measure.

Best products

Most products with less than 40% moisture (by weight) will work using DUO calibration models. Products with moistures above 40% usually have such uniformly high water activity values that other moisture analyzers are a better fit.

High precision and repeatability

Below 40%, moisture changes affect water activity readings more strongly, yielding high precision and repeatability.

SKALA adds DUO models to any AQUALAB

Add product-specific calibration models to any SKALA-connected water activity instrument. SKALA uses the appropriate model when the technician identifies a sample.

Request a quote Contact us Connect your AQUALAB 4TE DUO
Features Specifications Accessories Support / Downloads

Features

- Costs less to run than other moisture analyzers
- Odor-free
- Chemical-free
- No oven, no balance
- Precise: reduces error by up to 90%
- Verifiable with independent salt standards
- Repeatable
- Green: uses 95% less energy
- Portable: the meter weighs just 7 pounds
- Easy to use: precise measurements with minimal training
- Secure: offers administrative control over calibration and sample data
- Complete moisture analysis: reads both moisture content and water activity

Specifications

MEASUREMENT SPECIFICATIONS

Water activity	Range: 0.030–1.000 a_w Resolution: 0.0001 a_w Accuracy: ±0.003 (4TE dew point) ±0.015 (4TEV capacitance) Repeatability: 0.001 a_w
Moisture content	Accuracy: 0.1%–0.5% to moisture content reference Repeatability: 0.02%
Temperature	Range: 15-50 °C Resolution: 0.01 °C Accuracy: ±0.1 °C

Read time	~5 min

PHYSICAL SPECIFICATIONS

Case dimensions	Length: 26.7 cm (10.5 in) Width: 17.8 cm (7.0 in) Height: 12.7 cm (5.0 in)
Case material	POLYLAC PA-765 (ABS) with fire retardant
Sample cup capacity	14 mL (0.47 fl oz)
Weight	3.1 kg (6.8 lb)
Display	64 × 128 graphical
Operating temperature	Minimum: 4 °C Maximum: 50 °C
Operating environment	0%–90% noncondensing
Sample dish capacity	7.5 mL recommended (15 mL full)
Data communications	USB A and RS-232 serial 9,600–115,000 baud
Power	110–220 VAC 50/60 Hz
COMPLIANCE	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark)

California requires the following notice:

Support

Have a question or problem? Our support team can help.

We manufacture, test, calibrate, and repair every instrument in house. Our scientists and technicians use the instruments every day in our product testing lab. No matter what your question is, we have someone who can help you answer it.

Email: support.food@metergroup.com

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