



METER
FOOD



AQUALAB 3

SPECIFICATIONS

| | | | |
|----------------|---|-----------------------|--|
| SENSOR TYPE | Chilled mirror dew point | OPERATING ENVIRONMENT | 0% - 90% noncondensing |
| | Range: 0.030–1.000 a _w Resolution: 0.001 a _w Accuracy: ±0.005 a _w Repeatability: 0.002 a _w | SAMPLE DISH CAPACITY | 7.5 mL recommended (15 mL full) |
| CASE MATERIAL | Polycarbonate-ABS (PC-ABS) | TEMPERATURE | Controlled at constant 25 °C Resolution: 0.1 °C Accuracy: ± 0.1 °C |
| WEIGHT | 11 lbs (5 kg) | READ TIME | Typically ≤ 5 min |
| DISPLAY | Through connection to SKALA HUB | STANDARDS COMPLIANCE | AOAC |
| POWER | 110-240 VAC 47/63 Hz (Fuse 2A @ 250V) | | |
| OPERATING TEMP | 15-35 °C | | |



AQUALAB TDL

SPECIFICATIONS

| | | | |
|------------------------|---|-----------------------|---|
| SENSOR TYPE | Tunable diode laser | WEIGHT | 6.83 lbs; instrument only |
| RANGE | 0.000 – 1.000 a _w | DISPLAY | 128x64 pixel graphical display with backlighting |
| RESOLUTION | 0.0001 a _w | POWER | 110-220 VAC, 50/60 Hz warranty: one year parts and labor |
| ACCURACY | ±0.005 @ 25 °C | OPERATING ENVIRONMENT | 4 to 50 °C; 90% relative humidity (noncondensing) |
| REPEATABILITY | 0.001 a _w | OPERATING TEMPERATURE | 15-35 °C |
| DATA STORAGE | 8,000 readings | SAMPLE DISH CAPACITY | 7.5 mL recommended (15 mL full) |
| TEMP CONTROL | 25 °C standard; 15 to 50 °C (with calibration) | | |
| TEMP ACCURACY | ±0.2 °C | | |
| TEMPERATURE RESOLUTION | 0.01 °C | | |
| CASE MATERIAL | Machine aluminum frame; Lustran 433 (ABS) with fire retardant | | |



AQUALAB 4TE

SPECIFICATIONS

| | | | |
|----------------|--|-----------------------|--|
| WATER ACTIVITY | Range: 0.030–1.000 a _w Resolution: 0.001 a _w Accuracy: ±0.003 (4TE dew point) ±0.015 (4TEV capacitance) Repeatability: 0.001a _w | CASE DIMENSIONS | Length: 26.7 cm (10.5 in) Width: 17.8 cm (7.0 in) Height: 12.7 cm (5.0 in) |
| TEMPERATURE | Range: 15-50 °C Resolution: 0.01 °C Accuracy: ±0.1 °C | WEIGHT | 3.1KG (6.8 lb) |
| READ TIME | ~5 min | DISPLAY | 64x128 graphical |
| CASE MATERIAL | POLYLAC PA-765 (ABS) with fire retardant | POWER | 110-240 VAC 47/63 Hz (Fuse 2A @ 250V) |
| | | OPERATING TEMP | Minimum: 4 °C Maximum: 50 °C |
| | | OPERATING ENVIRONMENT | 0% - 90% noncondensing |
| | | SAMPLE DISH CAPACITY | 14mL (0.47 fl oz) |
| | | STANDARDS COMPLIANCE | AOAC |



AQUALAB 3

CHILLED MIRROR DEW POINT TECHNOLOGY – NOW SMART

The AQUALAB 3 is a smart, connected water activity meter that pairs the speed and accuracy of AQUALAB chilled mirror dew point technology with SKALA's data power. This makes it possible not only to get your final testing numbers quickly, but now you can also manage compliance details for auditors, optimize your moisture margin, and monitor your process in real time to make consistently great product for your customers.

FEATURES

Fast: Water activity readings in 5 minutes or less (most samples). Average read time 3 minutes.

Accurate: the chilled mirror dew point sensor offers 0.005 a_w accuracy

Easy to use: precise measurements, minimal training

Expandable: connect and manage multiple AQUALAB 3 instruments with one iPad

Repeatable: standards based for repeatability across users and locations

Connectible: collect data automatically from non-METER instruments

SPECIFICATIONS

| | |
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| SENSOR TYPE | Chilled mirror dew point Range: 0.030–1.000 a_w Resolution: 0.001 a_w Accuracy: $\pm 0.005 a_w$ Repeatability: 0.002 a_w |
| CASE MATERIAL | Polycarbonate-ABS (PC-ABS) |
| WEIGHT | 11 lbs (5 kg) |
| DISPLAY | Through connection to SKALA HUB |
| POWER | 110-240 VAC 47/63 Hz (Fuse 2A @ 250V) |
| OPERATING TEMP | 15-35 °C |
| OPERATING ENVIRONMENT | 0% - 90% noncondensing |
| SAMPLE DISH CAPACITY | 7.5 mL recommended (15 mL full) |
| TEMPERATURE | Controlled at constant 25 °C Resolution: 0.1 °C Accuracy: ± 0.1 °C |
| READ TIME | Typically ≤ 5 min |
| STANDARDS COMPLIANCE | AOAC |





AQUALAB 4TE

BENCHTOP WATER ACTIVITY METER

The secret to the 4TE's speed and accuracy is in its unique chilled mirror dew point sensor. The dew point sensor is a primary measure of water activity. Unlike other water activity sensors, the dew point sensor actually measures water activity (a_w), not some secondary parameter merely correlated with water activity (a_w). This makes the 4TE extremely accurate, so you can have complete confidence in your sample readings.

FEATURES

Fast: water activity meter gets readings in 5 minutes or less

Accurate: $\pm 0.003 a_w$

Verifiable with independent salt standards

Repeatable: different users, different locations, same result

Portable: weighs just 7 pounds (3 kg)

Easy to use: water activity meter yields precise measurements with minimal training

Secure: offers administrative control over calibration and sample data

Proven: used by 80 of the top 100 food companies and complies with current ISO and AOAC standards.

SPECIFICATIONS

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|-----------------------|--|
| WATER ACTIVITY | Range: 0.030–1.000 a_w Resolution: 0.001 a_w Accuracy: ± 0.003 (4TE dew point) ± 0.015 (4TEV capacitance) Repeatability: 0.001 a_w |
| TEMPERATURE | Range: 15–50 °C Resolution: 0.01 °C Accuracy: ± 0.1 °C |
| READ TIME | ~5 min |
| CASE MATERIAL | POLYLAC PA-765 (ABS) with fire retardant |
| CASE DIMENSIONS | Length: 26.7 cm (10.5 in) Width: 17.8 cm (7.0 in) Height: 12.7 cm (5.0 in) |
| WEIGHT | 3.1KG (6.8 lb) |
| DISPLAY | 64x128 graphical |
| POWER | 110–240 VAC 47/63 Hz (Fuse 2A @ 250V) |
| OPERATING TEMP | Minimum: 4 °C Maximum: 50 °C |
| OPERATING ENVIRONMENT | 0% - 90% noncondensing |
| SAMPLE DISH CAPACITY | 14mL (0.47 fl oz) |
| STANDARDS COMPLIANCE | AOAC |





AQUALAB TDL

WATER ACTIVITY FOR VOLATILE SAMPLES

When it comes to measuring water activity of volatiles, readings don't get more precise. That's because the TDL uses a laser tuned to the absorption band of water. The laser beam—less than one nanometer wide—locks on to water molecules no matter what the concentration of volatiles. The TDL is even able to correctly measure the water activity of pure alcohol.

FEATURES

Fast: water activity meter gets readings in 5 minutes or less

Accurate: $\pm 0.005 a_w$

Verifiable with independent salt standards

Repeatable: different users, different locations, same result

Portable: weighs just 7 pounds

Easy to use: water activity meter yields precise measurements with minimal training

Secure: offers administrative control over calibration and sample data

Proven: used by 80 of the top 100 food companies

SPECIFICATIONS

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| SENSOR TYPE | Tunable diode laser |
| RANGE | 0.000 – 1.000 a_w |
| RESOLUTION | 0.0001 a_w |
| ACCURACY | ± 0.005 @ 25 °C |
| REPEATABILITY | 0.001 a_w |
| DATA STORAGE | 8,000 readings |
| TEMP CONTROL | 25 °C standard; 15 to 50 °C (with calibration) |
| TEMP ACCURACY | ± 0.2 °C |
| TEMPERATURE RESOLUTION | 0.01 °C |
| CASE MATERIAL | Machine aluminum frame; Lustran 433 (ABS) with fire retardant |
| WEIGHT | 6.83 lbs; instrument only 6.55lb |
| DISPLAY | 128x64 pixel graphical display with backlighting |
| POWER | 110-220 VAC, 50/60 Hz warranty: one year parts and labor |
| OPERATING ENVIRONMENT | 4 to 50 °C; 90% relative humidity (noncondensing) |
| OPERATING TEMPERATURE | 15-35 °C |
| SAMPLE DISH CAPACITY | 7.5 mL recommended (15 mL full) |



