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new

# AquaLab TDL Water Activity Meter

AQUA  
LAB  
by DECAJON

AquaLab TDL is the only water activity meter in the world that isn't affected by volatiles.

- **Breakthrough Tunable Laser Technology**  
Precision laser beam measures the presence of water and only water.
- **Measure Any Sample**  
Unlike capacitance and chilled mirror sensors, the tunable diode laser is unaffected by volatiles.
- **Easier Cleaning**  
A sensor with no moving parts and a completely sealed sample chamber makes the AquaLab TDL more robust and easier to clean.



## AquaLab TDL Benchtop Water Activity Meter

Measure the water activity of any sample with the first water activity sensor completely unaffected by volatiles. Anyone, from a technician in the lab to an operator at the line, can measure water activity in five minutes or less to  $\pm 0.005 a_w$  specifications.

**How it Works**  
Put up to a 7.5 ml sample in a disposable cup, seal the sample chamber lid over the sample, and wait for vapor equilibrium. At equilibrium, the relative humidity of the air in the sample chamber is equal to the water activity of the sample.

**Tunable Diode Laser Sensor**  
The TDL measures the relative humidity of the air in the sample chamber by emitting a finely-tuned near-infrared laser beam across the headspace. Because water vapor has strong absorption bands in the near infrared (NIR), the sensor can measure the presence of water vapor in the headspace very precisely.

**Unaffected by Volatiles**  
The beam of the laser, which is less than one nanometer wide, is specific for the commonly occurring isotope of water. Other vapor molecules, including the vapor of different isotopes of water, do not affect the reading.

**Read Any Sample**  
The sensor is powerful enough to measure the water activity of previously impossible to measure samples, including high concentration ethanol, even gasoline.

**Speed and Accuracy**  
Measure water activity in five minutes or less with  $\pm 0.005 a_w$  accuracy. The AquaLab TDL is the fastest, most precise water activity meter available for volatiles.

**Use (Almost) Anywhere**  
Water activity is temperature dependent. Internal temperature control lets you set a measuring temperature between 15 and 50 °C and use the instrument anywhere—even outside a climate-controlled facility.

**Robust, Easy to Clean**  
The sensor has no moving parts, and is housed in a fully-sealed sample chamber. The chamber lid offers easy access to all parts of the sample chamber for cleaning.

**Secure Data**  
AquaLab TDL stores time, date, and user information with every measurement and calibration, and can store up to 3,000 secure data points. Set up to 25 unique users and passwords to control access to data.

Use available AquaLink software to maintain compliance records and archives, run statistical analysis, and generate reports for customers and decision-makers.

**Learn More**  
Visit [wateractivity.com](http://wateractivity.com) to see how water activity can keep your products safe and your process lean.

Learn More. Visit [www.aqualab.com/tdl](http://www.aqualab.com/tdl) to see the TDL in action, call 509-332-2756 or email [sales@aqualab.com](mailto:sales@aqualab.com) for a quote.