

# AQUALAB IQ/OQ

## Installation/Operational Qualification

### AQUALAB Water Activity Meters

#### 1.1 Equipment identification

Fill out this section after unpacking the AQUALAB 4 instrument and corresponding accessories.

**Manufacturer** METER Group, Inc. USA

**Model**

**Serial Number**

#### Company Information

**Company**

**Department**

**Room**

**Contact**

**Calibration SOP**

**Calibration Frequency**

Daily/Before each use

## 2. Installation Qualification (IQ)

Installation of AQUALAB instrument or meter includes placing the instrument on a level surface in a location where the temperature remains fairly stable. This location should be well away from any air conditioners, heaters, vents, open windows, outside doors, or other items that may cause rapid temperature fluctuation. After finding a good location for the AQUALAB instrument or meter, plug the power cord to the back of the unit and standard AC outlet. The ON/OFF switch is located on the lower right corner of the AQUALAB meter's back panel.

- The AQUALAB meter is properly installed at the facility

**Qualified by:**

**Signature**

**Date**

**Name/Title**

**Initials**

### 3. Operational Qualification (OQ)

The AQUALAB instrument or meter's performance is verified by measuring specially prepared calibration standards that have a specific molality and water activity. To provide the most accurate readings, the AQUALAB instrument or meter should ideally be allowed a warm-up period of at least 15 minutes after it has been turned on. Performance Verification Standards come in four water activity levels: 0.250<sub>a<sub>w</sub></sub>, 0.500<sub>a<sub>w</sub></sub>, 0.760<sub>a<sub>w</sub></sub>, and 1.000<sub>a<sub>w</sub></sub>. The AQUALAB meter's dew point sensor will read each standard within ±0.003 a<sub>w</sub> of the stated value. The volatiles sensor will read each standard within ±0.015 a<sub>w</sub> of the stated value.

Standard @ 25 °C	Lot	Dew Point Sensor a <sub>w</sub> ± 0.003	Temperature °C	Volatiles Sensor a <sub>w</sub> ± 0.015 (4TEV only)	Temperature °C
13.41m LiCl	0.250				
	0.250				
8.57m LiCl	0.500				
	0.500				
6.0m NaCl	0.760				
	0.760				
Steam Distilled H <sub>2</sub> O	1.000				
	1.000				

AQUALAB meter measured Verification Standards within specification  Yes  No  
 Qualification met the vendor acceptance criteria  Yes  No

**Complete the following if "No" has been checked, otherwise enter "N/A"**

Explanation of why acceptance criteria was not met  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Action Plan to meet acceptance criteria  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Check after completion of Action Plan**  
 Qualification meet's vendor's acceptance criteria after completion of action plan  Yes  No

Notes & remarks from checking contents.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Name/Title \_\_\_\_\_

Initials \_\_\_\_\_