

AQUASOL – Lab Connect

User Guide

Version 2026.01

A Product By



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1. Getting Started

Before opening the software

- Connect the Aquasol Digital meter to the Windows PC using the USB cable.
- Switch ON the meter and allow it to reach its normal measuring screen.
- Make sure no other program is using the same COM port.

Register

1. Open Aquasol Lab Connect.
2. Initial setup account is admin and password is admin.
3. Change or add users under Users & Rights as required.

Login

4. Open Aquasol Lab Connect.
5. Enter the assigned User Name and Password.
6. Click Login.

Select Meter

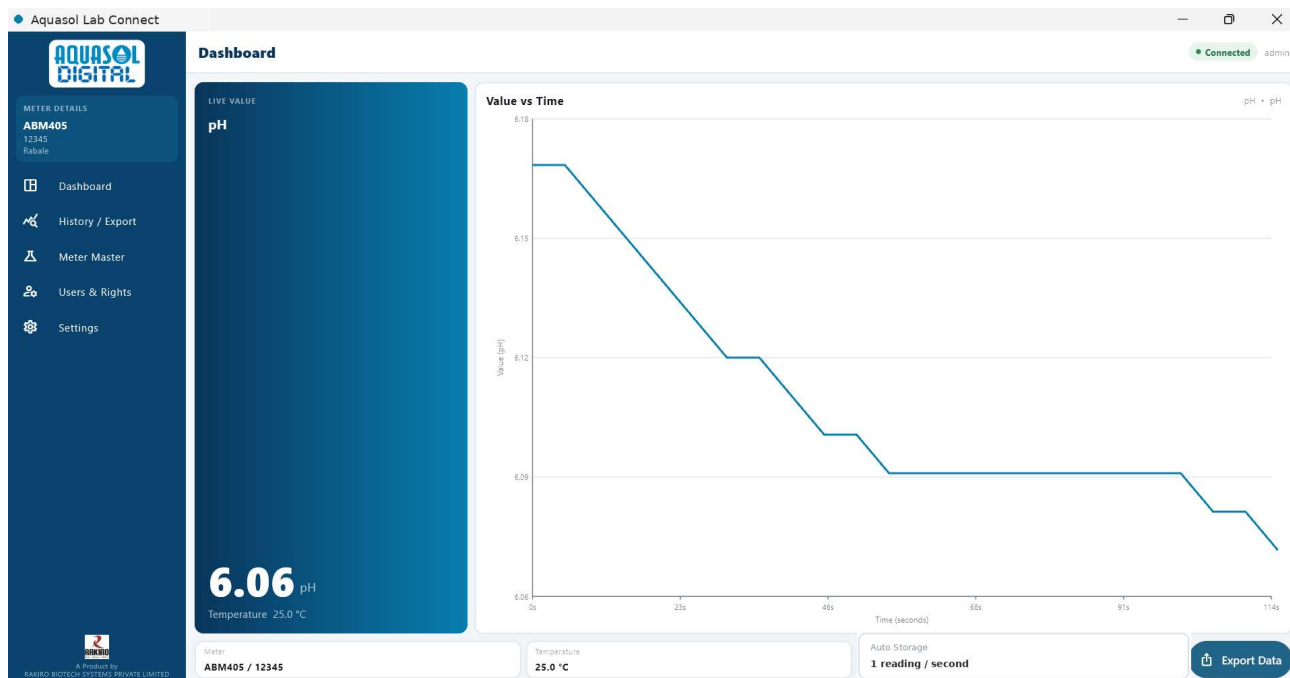
1. After login, the app displays the Select Meter screen. Choose the meter you are physically connecting.
2. Select an existing registered meter, or click Add New Meter.
3. For a new meter, enter Model, Serial Number, Company, Location and Department.
4. The software does not read the model or serial number automatically from the USB data. These details must therefore be entered correctly.

Connection confirmation

1. The top-right status should show **Connected**.
2. Once valid meter data is received, the live value and temperature appear on the Dashboard.

2. Dashboard - Live Measurement

The Dashboard is the main operating screen.



Live Value

- Shows the current parameter, measured value, unit and temperature.

Meter Details

- Shows the selected model, serial number and location.

Auto Storage

- One valid reading every 1 second.

Value vs Time

- Shows the live graph for the currently received parameter.

Connection

- Top-right indicator shows whether the app is connected.

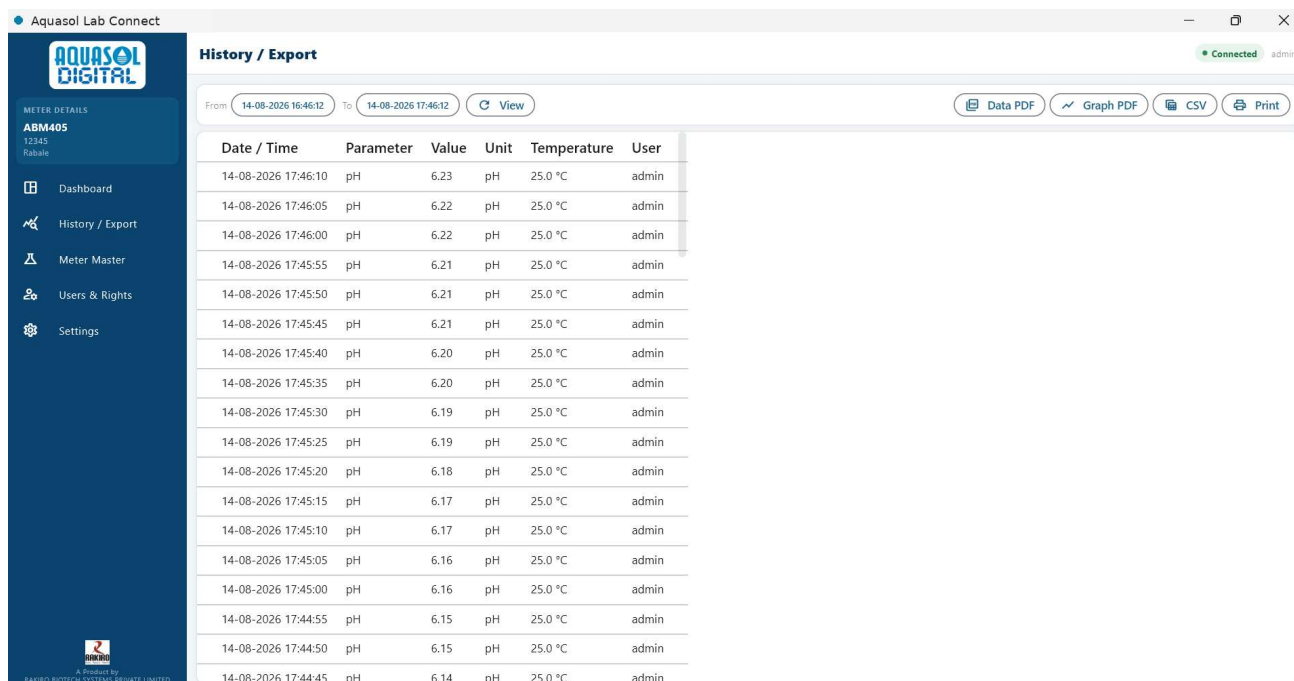
Export Data

- Opens History / Export for date-time filtering and output.

3. History / Export

Use this screen to review saved readings and create reports.

Only readings falling inside the selected From and To date/time range are included.



History / Export

From: 14-08-2026 16:46:12 To: 14-08-2026 17:46:12 View

Data PDF Graph PDF CSV Print

Date / Time	Parameter	Value	Unit	Temperature	User
14-08-2026 17:46:10	pH	6.23	pH	25.0 °C	admin
14-08-2026 17:46:05	pH	6.22	pH	25.0 °C	admin
14-08-2026 17:46:00	pH	6.22	pH	25.0 °C	admin
14-08-2026 17:45:55	pH	6.21	pH	25.0 °C	admin
14-08-2026 17:45:50	pH	6.21	pH	25.0 °C	admin
14-08-2026 17:45:45	pH	6.21	pH	25.0 °C	admin
14-08-2026 17:45:40	pH	6.20	pH	25.0 °C	admin
14-08-2026 17:45:35	pH	6.20	pH	25.0 °C	admin
14-08-2026 17:45:30	pH	6.19	pH	25.0 °C	admin
14-08-2026 17:45:25	pH	6.19	pH	25.0 °C	admin
14-08-2026 17:45:20	pH	6.18	pH	25.0 °C	admin
14-08-2026 17:45:15	pH	6.17	pH	25.0 °C	admin
14-08-2026 17:45:10	pH	6.17	pH	25.0 °C	admin
14-08-2026 17:45:05	pH	6.16	pH	25.0 °C	admin
14-08-2026 17:45:00	pH	6.16	pH	25.0 °C	admin
14-08-2026 17:44:55	pH	6.15	pH	25.0 °C	admin
14-08-2026 17:44:50	pH	6.15	pH	25.0 °C	admin
14-08-2026 17:44:45	pH	6.14	pH	25.0 °C	admin

From / To

- Choose the beginning and ending date/time.

History Table

- Shows Date/Time, Parameter, Value, Unit, Temperature and User.

Data PDF

- Creates a tabular PDF report. Different parameters are kept separate.

CSV

- Creates spreadsheet-compatible data. Parameters are exported separately.

View

- Loads readings for the selected meter and period.

Pagination

- 50 readings are shown per page, with navigation controls.

Graph PDF

- Creates Value vs Time graphs, one parameter per report page.

Print

- Creates/opens the report for printing using the Windows PDF viewer.

4. Meter Master

Meter Master maintains the meters available in the software. The currently selected meter is marked as CURRENT.

- Add Meter - register a new instrument.
- Edit - correct or update meter information.
- Delete - available for meters that are not currently selected.
- Select Meter - return to meter selection and choose another registered meter.

Supported models and parameters

Model	Parameters supported by app
ABM401	pH, ORP
ABM402	TDS, Conductivity, Salt
ABM403	pH, ORP, TDS, Conductivity, Salt
ABM404	DO, O ₂
ABM405	pH, ORP, TDS, Conductivity, Salt, DO, O ₂

Model selection controls which parameters the software accepts for that registered meter. Enter the correct model and serial number because these details are stored with readings and shown in reports.

5. Users & Rights

The Users & Rights menu is available to Admin users. It controls login accounts and output permissions.

User fields

- User Name and Password
- Role
- PDF permission
- CSV permission
- Print permission

Roles

Role	Use
Admin	Full application access, including Meter Master and Users & Rights.
Supervisor	Measurement, history and export functions according to assigned output rights.
Operator	Routine measurement use; export rights may be restricted.

PDF, CSV and Print rights are controlled separately. The Admin account itself cannot be deleted from the Users & Rights list.

6. Settings and Data Storage

Settings screen

- App and Version - shows Aquasol Lab Connect and the installed version.
- User - shows the currently logged-in user and role.
- COM Port - shows the selected communication port.
- Protocol - 9600 baud, 8 data bits, no parity, 1 stop bit.
- Status - shows the current connection status.
- Selected Meter - shows model / serial number and allowed parameters.
- Reconnect - restarts the meter connection.
- Change Meter - returns to the meter selection screen.
- Logout - exits the current user session.

Automatic storage

Logging interval	1 valid reading every 1 second
Maximum retained	1,000,000 newest readings
Retention method	When the limit is exceeded, the oldest readings are removed automatically

Clear Stored Data - Admin only

This permanently deletes stored measurement readings on that PC. It does not delete Meter Master entries or Users.

Use this function only when historical readings are intentionally no longer required.

7. Quick Troubleshooting

Problem	Action
Connected but waiting for data	Confirm the meter itself is displaying a valid reading. Wait a few seconds, then use Settings > Reconnect.
App cannot connect	Close any other software that may be using the same COM port. Only one program can normally use the meter COM port at a time.
Wrong meter information on reports	Correct the selected meter information in Meter Master, or choose the correct registered meter.
No PDF / CSV / Print output	Confirm the logged-in user has the required output right under Users & Rights.
Old readings are still visible	Change the From / To period, or Admin may use Clear Stored Data if the stored history should be permanently deleted.
PDF does not open automatically	Open the generated report from the export folder using the Windows PDF viewer.

For any questions or doubts please write to us at enquiry@rakiro.net or call us on +91-22-47804040