VAN WALT
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Quick Start Guide

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Aquaread™

This guide is meant to serve as a quick reference for operating the Aquaread Aquameter and Aquaprobe.

It is for your convenience and is not intended to replace the information found in the Operations Manual provided.

Connecting an AQUAPROBE
To connect the Aquaprobe to the Aquameter, align the key slot of the AQUAPROBE plug with the AQUAMETER socket, then press the plug into the socket and tighten the retaining collar. Always ensure the AQUAMETER is switched off prior to connecting or disconnecting an AQUAPROBE.

Switching On
To switch the meter on or off, briefly press the red key. If you do not press any keys for thirty minutes, the meter will automatically switch off. If the AQUAPROBE is connected correctly, the meter will read the Probe's serial number and model number, then will automatically configure itself to display only those readings the current AQUAPROBE is capable of taking. Initial Probe readings will be displayed on the meter's screen along with the current GPS status (GPS model only).

Taking Measurements
If the AQUAPROBE you are using includes a pH/ORP electrode, remove the storage cap by pulling the red lanyard straight down. Do not use a twisting motion. Fit the protective Sleeve Cap into the open end of the sleeve if required then immerse the AQUAPROBE in the sample water, making sure that the water level covers the minimum immersion depth groove halfway up the Probe sleeve. Switch the AQUAMETER on.

If the current AQUAPROBE / AQUAMETER combination is capable of reading more than three parameters, left/right arrows will appear at the bottom corners of the screen to indicate further data screens are available. To access these screens, simply press either the left or right arrow keys. Any value that is out of range or unavailable will be displayed as dashes. WARNING If the AQUAPROBE you are using includes a pH/ORP electrode, remember to remove the protective Sleeve Cap and replace the pH/ORP storage cap after use. Failure to do so will damage the electrode.

Choosing the displayed units
The AQUAMETER only displays one set of units per parameter, e.g. either DO% or DOmg/l. To alter the way the AQUAMETER displays readings, press the MENU key, choose Settings then Units. On the Units Menu screen, select the reading you want to alter from the list then use the up/down arrow keys to alter the settings. For more details, refer to the full instruction manual. If you are logging data on the meter all readings are recorded.

Trend Indication
To the right of each reading, a trend indication is given. This consists of either an upwards facing arrow (which indicates the value of the reading is rising), a downwards facing arrow (which indicates the value of the reading is falling) or a two-headed arrow which indicates a steady reading. Gently stir the Probe in the sample until the temperature reading is steady. By this time the other values should be reasonably steady and ready for saving.

Saving and Recalling Measurements

When you are happy that the readings are stable, press the M+ key to snapshot the readings along with the time, date, GLP (calibration) data and position (GPS models only). As each reading is saved, a numeric memory location 'Tag' will be briefly displayed which you can note down. This Tag can be used to identify readings at a later date, both on the Aquameter and when using Aqualink software. To recall your readings, press the MR key. On entering Memory Recall mode, the most recent set of readings are displayed first. To see earlier readings, press the up arrow key. To view all the parameters within one set of readings, use the left/right arrow keys as described earlier. If you want to save readings automatically on a regular basis, press the MENU key then select Auto Data Logging. Using the arrow keys to navigate, set the desired logging interval, set the Status to ON then press OK. An asterisk (*) will flash on and off just below the battery symbol on the main screens to indicate Auto Data Logging is active.

Using the Aquaprobe with a flow cell

The Aquaread Flowcell is supplied with two pairs of spigots, one pair to fit 6mm (1/4") ID tube and one pair to fit 10mm (3/8") ID tube. The spigots have a tapered thread so should be screwed into the inlet and outlet holes of the Flowcell until they are tight. At this point, they should seal due to the taper. If a spigot will not seal properly, remove it then re-insert with some PTFE plumber's tape wrapped around the thread. When using the Flow Cell the lower Sleeve must be fitted to the Aquaprobe, but the protective Sleeve Cap must not be fitted as this will reduce flow and cause turbulence. Loosen the screw collar located at the top of the Flowcell and moisten the seal with fresh water. Slide the Aquaprobe in all the way, ensuring it is properly seated in the recess where the clear tube enters the base. Tighten the screw collar to clamp the Aquaprobe in place.

Connect the Flowcell to a pumping device so that sample water enters at the bottom and exits at the top. Adjust the flow rate so that there is no visible turbulence or cavitation within the Flowcell. Connect an Aquameter and monitor the readings. If the readings are jumpy or erratic, reduce the flow rate. Flow rates above 60 litres/hour (16 US gallons/hour) are not recommended.