

Wall Mounted Breathalyser



Quick Start Guide

Rev 1.04, 15/07/2022

Thank you for choosing the AlcoMeasure WM1 wall mounted breathalyser. The purpose of this quick start guide is to help the user get the device up and running quickly. For a more detailed installation guide, as well as advanced configuration instructions, please refer to the *AlcoMeasure WM1 User Manual* which can be located on the USB stick contained with the device or downloaded from www.all-systems.com.au.

Take care to read the safety precautions and installation requirements before attempting to install or operate this device. Any installation should be carried out by an authorised service technician.

Please note that the AlcoMeasure WM1 is an advanced scientific measurement device. As such, it should be regularly serviced and maintained according to the instructions found in the User Manual. Once installed, the device owner assumes all responsibility for key management and internal access to the device.

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Safety Precautions

The following safety precautions must be taken into account when working with the AlcoMeasure WM1:

- High voltage (85V – 264V) is present inside this device. Take care when operating inside this device.
- Care must be taken during the installation procedure to ensure mains cable does not get caught between the machine and the mounting plate.
- The calibration gas cylinder used in this device is classed as dangerous goods and should be transported

as such. If necessary, it can be removed from the device and shipped separately. Further information can be found in the User Manual.

- The device should not be used in an environment where it will get wet or be contaminated with any other substance.
- The device weighs at least 13.5kg. It is advisable that assistance is provided when removing the device from its box and when mounting it on a wall or stand.

Unpacking the device

The following checklist shows all items that should be received in the AlcoMeasure WM1 box, excluding optional extras:

- AlcoMeasure WM1 device.
- Mounting plate (located on back of device).
- M5 wing nut (attached to mounting plate).

- USB Stick containing User Manual, PC Utility software, and gas cylinder MSDS.
- Upper door key.
- Lower door key.
- M5 hex nut (4)
- M5 flat washer (4)
- M5 star washer (4)

Installation Requirements

Before installing your device, the following information should be noted:

- The device is designed to be permanently mounted to a wall or stand and powered continuously.
- The device is not to be hardwired in any circumstances as it may require removal for servicing and/or repair.
- In order to maintain accuracy and correct operation the device must be installed in a controlled environment free of contaminants and temperature fluctuations. The optimal environment is air conditioned at approximately 24°C.

- In order to maintain accuracy and correct operation the device must remain powered and in continuous operation 24 hours a day. If it is turned off after use it will not be able to perform its normal daily self-calibration routine.
- The device will achieve maximum accuracy once it has been powered continuously for a period of 24 hours.
- Under no circumstances should the device be operated while it is placed on a flat surface. A minimum of 50mm unobstructed air space below the unit must be allowed.

Installation Guide

When mounting the AlcoMeasure WM1 the clearances shown on the right must be observed.

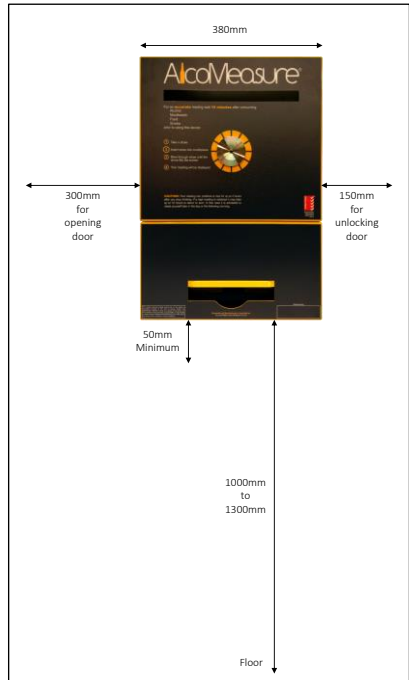
Overall device dimensions:

- Height: 535mm
- Width: 380mm
- Depth: 135mm
- Weight: 13.5kg minimum

For more dimension and mounting point measurements refer to the *User Manual*.

- 1) Ensure the unit is powered off. Unlock and open the bottom door using the key provided.
- 2) Unlock the top door using the supplied keys. Take care when opening it not to dislodge the exhaust tube or disturb any wiring or mechanics.
- 3) Loosen and remove the wing nut from the centre fastening stud of the mounting plate on the rear or the machine, then remove the plate by pulling outwards from the bottom.
- 4) Choose a suitable mounting location taking into account the clearances specified on the right. The device should be mounted near a power point where it can be powered continuously and should not be hardwired.
- 5) Securely attach the mounting plate to the wall or other suitable structure using at least four of the available mounting holes.
- 6) Lift the AlcoMeasure onto the locating tabs on the mounting plate and secure it to the mounting plate with the supplied M5 hardware.
If quick release is required then a single wing nut can be used to fasten the AlcoMeasure to the mounting plate, however this is not the recommended method if security is a concern.
- 7) Fill the straw dispenser with straws.
- 8) Replace the calibration gas bottle if it was removed.

- 9) Observe the calibration gas bottle and check that the gas level is above approximately 250 PSI.
- 10) Close and lock the top door, holding the door firmly in place to ensure that the locking bar at the top of the door correctly locates under the lip of the AlcoMeasure body.
- 11) Close and lock the bottom door.
- 12) The machine is now ready to be powered on.



Initial Start Procedure

When the device is first powered on, it may take some time for it to stabilise. This could take up to 15 minutes, during which time no tests can occur. Once the scrolling messages indicate that a test can be taken then the device is ready for normal operation.

If the device has not calibrated in the previous 30 days, the device will need to perform a self-calibration before it allows any tests to occur. It may take 45 minutes or longer for this to occur, depending on ambient temperature.

If the gas bottle has been removed for any reason, the device should be re-initialised by pressing the "Gas Bottle Change" item in the Service Menu. This will trigger the self-calibration mechanism just described.

Otherwise, if the device has been turned off for only a few days then it will allow tests to occur as soon as it has warmed up. It may, however, still perform a self-calibration after about 45 minutes of operation.

Initial Configuration

The AlcoMeasure WM1 comes preconfigured to run in Free Test mode, unless if a specific configuration has been requested. This means that once it warms up it requires no further configuration in order to take tests.

There are some initial configuration items that the installer should take care of:

- 1) Install the *AlcoMeasure Utility* PC software on a Windows PC.
 - 2) Power on the WM1.
 - 3) Connect the WM1 to the PC running AlcoMeasure Utility.
 - 4) Use the Utility to configure the System Time and Date. This is necessary in order for the log to contain the correct time stamp.
 - 5) If your region is currently in Daylight Saving time, make sure Daylight Savings is enabled in the device.
 - 6) Use the Utility to customize the scrolling messages that will be displayed on the screen.
 - 7) The WM1 should now be ready to use. Refer to the User Manual for more advanced configuration options.
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Performing a Test

When running in Free Test mode (default), the device will display the scrolling message “Take straw and blow”. This indicates that the device is ready to take a test.

ALCOHOL SHOULD NOT BE CONSUMED FOR AT LEAST 15 MIN PRIOR TO USING THE DEVICE

The test subject should take a straw from the straw dispenser and insert one end of the straw into the stainless-steel mouthpiece at the centre of the device. After taking a deep breath, the test subject should start blowing into the device through the straw at a moderate and steady rate. The display on the device will change to show an arrow. The arrow travels from the left to right side of the display and shows how much of the sample the subject still needs to provide. Once the arrow reaches the right-hand side of the screen the display

will say “Blow Complete”, indicating that the sample has been taken and the user can stop blowing.

After a few seconds of processing, the test result will be displayed on the screen.

If the test result is 0, and the Fast Recovery option is enabled, the result will be displayed for only a few seconds, and then the device will be ready to take the next test.

If the test result is greater than 0, or if Fast Recovery is disabled, the device will display the appropriate result message.

Refer to the User Manual for more advanced device operations.

Maintenance

To ensure the AlcoMeasure WM1 performs at the best of its capabilities the manufacturer recommends the following steps be taken by the user:

- Periodically download both the service log and the test log (if applicable) from your AlcoMeasure WM1 using AlcoMeasure Utility. This ensures an ongoing record of all test results, as well as a record of any problems or errors that the device has experienced.
- At a minimum, ensure that the machine takes at least one test per week. This will maximise the service life of the alcohol sensor.
- Regular replenishment of straws will be required, dependant on the frequency of use.

Note: Straw replenishment requires access to the bottom door, exposing the user to 240V. Care must be taken to avoid touching the internal wiring directly or with tools.

- If the device is an Evidential model, printer paper will need to be replaced when emptied.

- If the device is a Vend model, the coin box will need to be emptied dependant on the frequency of use. When this is done the coin count should also be cleared using AlcoMeasure Utility.
 - Ensure that the expiration date on the power leads test tag is not exceeded. Attached test tag requires annual lead testing.
 - In order to ensure ongoing compliance with all standards, and to ensure maximum and consistent accuracy, the AlcoMeasure WM1 should be serviced by an authorised service technician. The maximum time allowed between services is 12 months, after which the “Annual Service” message will be displayed.
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