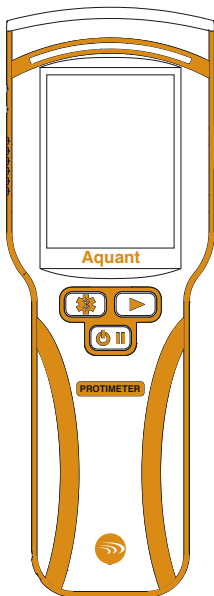




Aquant[®]
***Protimeter Non-Invasive
Moisture Meter***



Instruction Manual

Amphenol
Advanced Sensors

INS5770 Rev. A
Jul 2023

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967 Windfall Road
St. Marys, Pennsylvania 15857, USA

1 Safety Considerations



Calibration of unit -

User calibration is important to make sure the device is adjusted to the environment. Before each study it is advised to do a user calibration.



Only operate the measuring instrument properly, for its intended purpose and within the parameters specified in the technical data. Readings from moisture meters are not definitive but are used to help a professional make informed judgment to the material's moisture condition. Conductive material such as salts, carbon and metal can give false positive readings.

2 Search Mode (REL)

The Aquant non-invasive mode gives readings, in relative terms, of the moisture condition up to 19mm / 3/4” beneath the surface of materials. This mode of operation is ideal for making rapid surveys of solid walls and floors and to pinpoint areas of concern that may justify a more extensive investigation.


The Search mode may also be used as an alternative to the Measure mode when it is impractical or undesirable to push electrode pins into surfaces. Consider, for example, taking moisture readings behind ceramic tiles in shower cubicles or in walls covered by quality wallpapers where pinholes would not be acceptable. Surface moisture (such as condensation on an otherwise dry wall) has little effect on Search mode readings. Conductors (other than water) within the material may cause high Search mode readings. Make sure the flat surface on the back of the meter is in full contact with the material to be tested.

It is recommended that users place the meter onto different areas to measure and do not slide the meter across surfaces.

Note: *Sliding the meter can cause premature wear to the back of the meter.*

3 Operating Aquant

Switch On:

Press and hold the  (ON/OFF) button until the unit turns ON. Device displays all the segments and sweeping the LED arc.



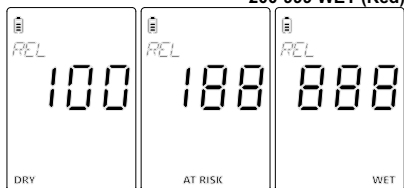
Measurements:

The numeric measurement and color LED will be shown as well as the “DRY” (green) or “AT RISK” (yellow) or “WET” (red), based on the measurement shown.


70-169 DRY (Green)

170-199 AT RISK (Yellow)


200-999 WET (Red)





Reference Mode of Measurement:

Take the first measurement which needs to be taken as reference. This is useful when establishing a dry standard in the building and comparing other readings against this dry standard. While the first reading is displayed on the screen, press and hold the  button for 2 seconds to enter the Reference Mode. The display will be similar to the one shown below.



To return to the normal measurement mode, press  again.

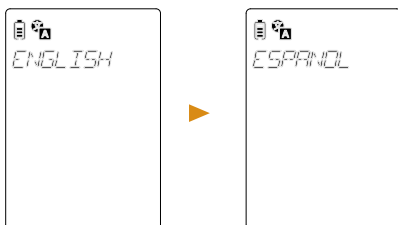
Settings:



Press the  button to enter in to settings. Any time during setting to go back press .

The device enters in to language settings as the first setup screen.


Setting up language:

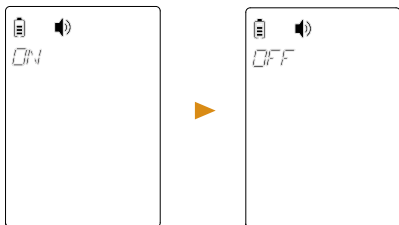
The first screen to appear in settings is language. User will see the last set language on the screen as below.





press  to browse through the list of languages available. When the desired language is seen on the display, choose it by pressing  key. This will set the language you selected and will move on to the next setting screen.


Buzzer ON/OFF Settings:

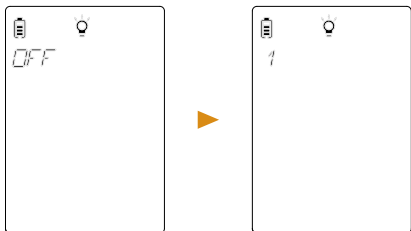
Pressing  key from the language settings will move on to buzzer setting.





press  to toggle between on and off. Choose and go to the next setting by pressing .

Brightness settings (Back light):

Pressing  key from the buzzer settings will move on to brightness settings.



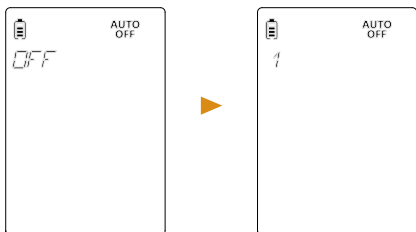
press  to change the back light from off to 10 levels.

When the desired brightness is set on the display save and move by pressing .


Note: Battery life is effected by the brightness setting. To maximize battery life, keep on the minimum setting.



Auto Off Time Settings:

When Auto Off is set, the unit will shut down automatically at a specified time between 1 and 10 minutes, if there is no key press detected within the set time.




For example, if the Auto Off time is set as 1, the unit will automatically shut down after a minute when no key is pressed.

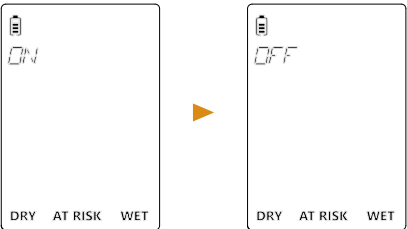
If the auto off time is set to be "Off", then the unit will not automatically turn off. Preserve battery life by lowering the auto off setting to a minimum on time. User must manually turn it off by pressing and holding the  button for 5 sec.


Turn off time can be changed from Off till 10 minutes by pressing  key. Pressing  key will move to the next screen.

DRY, AT RISK and WET Settings:


Pressing  key from auto off setting will move to DRY, AT RISK and WET setting screen.

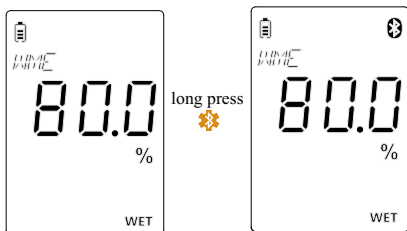
This screen sets whether the indication on the display needs to be switched ON or OFF. When it is ON, the moisture condition will be displayed on the screen. When it is OFF, no indication is displayed on screen.





Pressing  toggles the state from Off to On and vice versa.

Turning Bluetooth On/Off:


To turn the bluetooth on or off at any point of time from the measurement screen, press and hold  key.



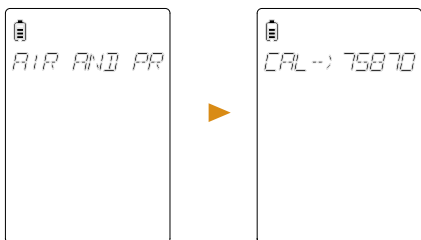
User calibration:

When the device is in measurement mode, press and hold  and  keys.




A scrolling text appears mentioning “hold in air and press right” hold the unit in air, away from any other object and then press  key to calibrate the device.

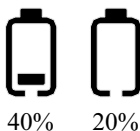
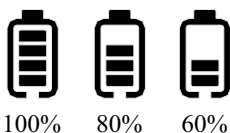
Reading will be offset for the ambient and displays the value it offset to.




press ► key to exit the calibration.

Battery Status:

Battery status is indicated in 5 levels.  symbol can be seen at the left top corner of the screen. Whenever the battery is low the symbol will blink (without block inside). When the battery is low its better to replace them soon. The unit will continue to perform in battery condition within the specified accuracy, and turns off when the battery reaches the limit.



Holding/Freezing the Reading:

While measuring, if the reading needs to be frozen for any observation, press  during measurement. A text "HOLD" will be displayed on the screen.

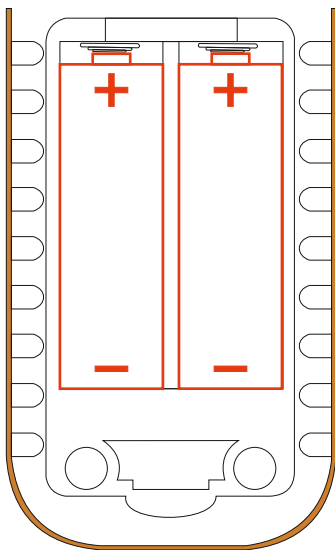


5 Battery Replacement

A 2700mAh battery will last continuously for more than 20 hours for a Aquant in operation. A Battery Low indication on the screen indicates that the battery needs to be changed in a short time.

Remove the battery lid to open the battery compartment.

Remove the batteries and replace. care must be taken to ensure that the polarity is correct as below. Place the battery inside the compartment.



6 Specification

Display(LCD)..... 35 X 50 mm

With backlight(10 brightness level)

Battery..... 3V(2 x AA)

2700mAh

Temperature

Operating..... 0°C to 50°C

Storage..... -40°C to 85°C

Operating Humidity.. 0 to 90% RH

Operating Altitude..... 2000m

Safety..... Pollution degree 4

Size..... 19cm x 6.5cm x 5cm

Gross Weight.....~240g

(without battery)

Measurement Specification.....

Non-Invasive moisture measurement:

Measurement depth:

up to 3/4" (19mm) deep

Reading: 60 to 999

(no effect on reading by
surface moisture)

Regulatory Compliance

CE, RoHS, ETL, UKCA, FCC

www.protimer.com

www.amphenol-sensors.com

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