

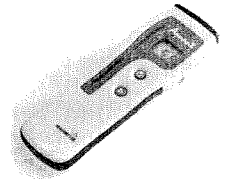
BLD5760 Aquant

User Instructions

Product Familiarisation

The Aquant moisture detector is used to assess and monitor the relative moisture level of non-conductive and porous materials such as plaster, masonry, concrete and fibreglass (GRP). It is an ideal instrument for making rapid surveys of solid walls and floors and to pinpoint areas of concern in tiled shower cubicles, GRP boat hulls, motor homes and caravans etc.




The Aquant has a digital display that is synchronised with a colour coded LED scale. The digital display shows the relative moisture level of the material under investigation on a scale of 0-1000 and the LED scale indicates the material's *moisture condition*. Green zone readings represent a safe, air-dry state, yellow zone readings represent a borderline state and red zone readings represent a damp condition.



Operation

The Aquant has a radio frequency transceiver located in the bulge on its underside to give relative readings within the material against which it is held to a nominal depth of 5 – 15mm (1/4" – 1/2"). The depth of measurement is subject to the characteristics of the material under test.



1. Hold the Aquant away from surfaces as shown and switch on by pressing  momentarily. The instrument may now be used to take measurements or zeroed as appropriate
2. Zero the instrument (with respect to the environment in which it is about to be used) by pressing and holding  for 3 seconds, until the word "nuL" appears in the display. Release ; "nuL" will flash for a few seconds and then disappear from the screen. The Aquant is now zeroed
3. Place the instrument against the surface of the wall, floor or element at the chosen point of measurement as shown. Ensure that your forefinger and thumb do not extend beyond the top of the black plastic grip band and wrap all fingers around the side of the instrument. Note that the Aquant should be held at a nominal 25° to the surface so that both top edge of the instrument and the sensor bulge are in contact with the surface
4. Read the relative moisture level value from the display and note the moisture condition of the material from the colour coded LED scale



Zero Feature

The zeroing feature enables the user to compensate for the effects of changes in temperature on the calibration. It is necessary to zero the Aquant if the following appear on the display when the instrument is held in air away from surfaces: (i) numbers or (ii) three lines " - - - " and the symbols " °C°F REL))) " are flashing.

Recommended **best practice** is to always zero the Aquant with respect to the environment in which it is about to be used, even if the display shows "0". Read the **Operation** section above for details.

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Hold Feature

The relative value shown on the display may be held for 3 seconds by pressing \cup whilst the Aquant is being held against a surface. This feature is useful when using the instrument in areas where the display cannot be clearly seen.

Auto Switch-off Override Feature

Press and hold \cup for 3 seconds to switch the instrument off.

User Set-up Options

The Aquant default settings are as follows: beeper active, automatically switches off after 1 minute. The user may change these default settings by entering the Set-up mode.

With the instrument switched off, press and hold the lower button \blacktriangleright and switch on using the upper button \cup . Display will show the firmware version number (e.g. "4.06") until both buttons are released. Information then scrolls across the display, starting with the part number ("bLd5760") and firmware date in the form yy-mm-dd (e.g. "04-05-20") followed by the calibration code (e.g. E1-1).

Once the scrolling is complete, display shows "0 = 0" meaning that option 0 is set to 0. The \cup and \blacktriangleright buttons may now be used to change the instrument options and settings respectively as detailed in the Set-up Table.

\cup When Option No. is	\blacktriangleright and Setting No. is	Aquant Set-up is
0	0	Instrument settings are not changed from previous settings
0	1	Instrument default settings loaded – switches off automatically after 1 minute, beeper is activated, factory-set zeroing.
1	0	Beeper is switched off
1	1	Beeper beeps when switching from one operational mode to the other
1	2	Beeper beeps with increasing frequency from nominal value of 170
2	0	Auto switch off is not active. Instrument can only be switched off by pressing \cup and holding for over 3 seconds
2	1	Auto switch off is active. Instrument switches off after 1 minute
2	2	Auto switch off is active. Instrument switches off after 2 minutes
2	3	Auto switch off is active. Instrument switches off after 3 minutes

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Note that the instrument options can only be changed in numerical sequence (0 then 1 then 2). Save setting changes and exit the Set-up mode by pressing \odot again as shown in the following example:

Example: switch instrument beeper off and set auto switch off to 3 minutes.

- *Press and hold \blacktriangleright followed by \odot to enter Set-up mode*
- *When display shows 0 = 0 press \odot once to select beeper options (1), then press \blacktriangleright until the display shows 1 = 0*
- *Press \odot once again to select auto switch off options (2), then press \blacktriangleright until the display shows 2 = 3*
- *Press \odot to save settings, exit Set-up mode and return to operational modes*

Error Messages

E32: displayed when zeroing. This signifies that the instrument reading is beyond the zeroing range of 130.


Care and Maintenance

When not in use the Aquant should be stored in its pouch in a stable and dry environment. Remove the battery if the instrument is not going to be used for extended periods of time. Replace the battery when the battery symbol appears on the display.

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The information contained in this leaflet is given in good faith. As the method of use of the instrument (and its accessories) and the interpretation of the readings are beyond the control of the manufacturers, they cannot accept responsibility for any loss, consequential or otherwise, resulting from its use.

 *GE Protimeter*

GE Protimeter plc

Meter House, Fieldhouse Lane, Marlow, Bucks. SL7 1LW. England

Telephone: +44 (0) 1628 472722 Fax: +44 (0) 1628 474312

e-mail: protimeter@ge.com

Web Site: www.protimeter.com

GE Protimeter North America: Telephone: +1 (800) 321 4878

GE Protimeter Germany: Telephone: +49 (2129) 55810

GE Protimeter Nordic: Telephone: +46 (8) 718 32 45