

### Introduction

The *Protimeter Mini C BLD2001* is used to measure the moisture content of wood and the wood moisture equivalent (**WME**) value of other non-conductive materials.

# 1 Procedure for Using the Protimeter Mini C BLD2001

To use the Protimeter Mini C BLD2001, do the following:

- 1. Remove the cap to expose the needle electrodes.
- 2. Switch the instrument **ON** by pressing and releasing the button. Ensure that the battery symbol is illuminated (if it is flashing, the battery should be replaced).
- **3.** Push the pins into the surface of the material to be tested and observe the reading.
- 4. Alternatively, take moisture readings by using optional electrodes connected via the socket on the right-hand side of the instrument.



5. After use, replace the cap and switch the meter OFF by pressing and holding the button, or allow the instrument to switch OFF automatically.

Note: While the button is pressed, the current reading is held on the display; after 3 seconds it will flash to signify that the instrument will switch OFF when released.

# 2 Automatic Switch-Off Adjustment

**Note:** To maximize battery life, the instrument is programmed to switch off automatically after one minute. If desired, the auto switch-off can be set at longer time periods, but this reduces the working life of the battery.

To change the auto switch-off, do the following:

- 1. Press and hold the  $^{\circlearrowleft}$  button for three seconds until the lowest LED starts flashing.
- 2. As soon as the LED starts to flash, release the  $^{\circlearrowleft}$  button and then press repeatedly to select the desired auto switch-off time, as listed in Table 1 below.

| Table 1: Auto Swi | itch Off Time |
|-------------------|---------------|
|-------------------|---------------|

| WME Scale Value | Auto Switch Off Time | WME Scale Value | Auto Switch Off Time |
|-----------------|----------------------|-----------------|----------------------|
| 6               | 60 seconds           | 18              | 180 seconds          |
| 9               | 90 seconds           | 21              | 210 seconds          |
| 12              | 120 seconds          | 24              | 240 seconds          |
| 15              | 150 seconds          |                 |                      |



## 3 Measurement Range and Interpretation

In wood, the Protimeter Mini C BLD2001 measures the moisture content from 6–30%, the level at which the fibers are saturated. In other non-conductive materials, the instrument measures the **WME** value up to 28%.

**Note:** The WME value is the theoretical moisture level that would be attained by wood that is in moisture equilibrium with the material being tested.

The color-coded zones signify the moisture condition of the material under investigation. The **green**, **yellow**, and **red** color-coded zones indicate the following:

- Material in the green zone is in a safe air-dry condition.
- In the yellow zone, moisture levels are higher than normal but not critical; further
  investigation is recommended.
- The red zone represents excessive moisture levels. If sustained, red zone moisture levels
  will lead to decay in organic materials.

## 4 Battery

The Protimeter Mini C BLD2001 is powered by one 6F22 9V battery. Replace it when the low battery symbol flashes by removing the cover on the back of the instrument. Ensure correct polarity when inserting the new battery.

### 5 Calibration Check

Check the calibration of the Protimeter Mini C BLD2001 in accordance with your quality control procedures by holding the electrode needles across the exposed wires of the Protimeter "Calcheck" device.

Correctly calibrated instruments will register a value of 17–19. Instruments that register a value outside this range should be returned to Amphenol Advanced Sensors or to an authorized Protimeter distributor for servicing.

### 6 Care and Maintenance

Store the instrument in a dry and stable environment. Remove the battery if the instrument is not in regular use.

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.

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