Quick Start Guide

Version 1.0

HYDROMETTE

BL A plus

EN

GANN MESS- U. REGELTECHNIK GMBH

70839 GERLINGEN SCHILLERSTRASSE 63 INTERNET: http://www.gann.de

Verkauf National: TELEFON 07156-4907-0 TELEFAX 07156-4907-40 EMAIL verkauf@gann.de
Verkauf International TELEFON +49 7156-4907-0 TELEFAX +49 7156-4907-48 EMAIL sales@gann.de

Disclaimer

GANN Mess- u. Regeltechnik GmbH does not make any assurances or warranties with respect to this document and, to the extent permitted by law, limits its liability for breach of any implied warranty to the replacement of this document with another. Furthermore, GANN Mess- u. Regeltechnik GmbH reserves the right to revise this publication at any time without having to notify anyone about such revisions.

The information provided in this documentation includes general descriptions and/or technical characteristics for the performance of the equipment described herein. This documentation cannot be used as a proper assessment of the suitability or reliability of the equipment for a specific application by a user and must not be used as a substitute for such an assessment. It is the responsibility of any such user to carry out an appropriate and complete risk assessment, evaluation and testing of the equipment with regard to his specific application. Neither GANN Mess- u. Regeltechnik GmbH nor any of its partner or subsidiary companies can be made responsible or liable in the event of misuse of the information contained in this document.

All relevant national, regional and local safety regulations must always be observed when installing and using this device. For reasons of safety and to ensure compliance with the documented system data, only the manufacturer is authorised to carry out repairs to components. Failure to observe this information may result in injury or damage to the equipment.

Table of Contents

1 Foreword 4

1.1 Explanation of the General Warnings 5

1.2 Specific Warnings 5

2 Device Layout and Button Assignment 6

2.1 Display Symbols: Resistance Measurement 8

2.2 Display Symbols: Capacitive Measurement 8

2.3 Switching the Device On and Off 9

2.4 Menu Guidance 9

2.5 Material Selection 11

2.5.1 Fine Adjustment (Wood Type Adjuster) 12

2.6 Basic Measurement 13

2.6.1 Measuring Process 13

3 Using the Hydromette BL A plus – Resistive 14

4 Using the Hydromette BL A plus- Capacitive 15

1 Foreword

This quick start guide contains an overview of the most important functions of the Hydromette BL A plus. It only contains parts of the legal and safety-relevant information and has been abridged for better readability. A complete digital version of the operating instructions is available on our homepage in the download area (in **English**: pdf. file with **EN** extension):

https://www.gann.de/en/products/handhelds/electronic-moisture-meters/blue-product-series/bl-a-plus#downloads

Only use the device if you have read and understood all legal and safety-related information in the complete operating manual.

1.1 Explanation of the General Warnings

The following danger levels are used in this quick start guide to indicate potentially dangerous situations and important safety instructions:

Danger Level	Description
 **DANGER**	**Danger / Indicates a hazardous situation which, if not avoided, will result in death or serious irreversible injuries.**
 **WARNING**	Warning / Indicates a hazardous situation which, if not avoided, could result in death or serious irreversible injuries.
 **CAUTION**	Caution / Indicates a hazardous situation which, if not avoided, could result in minor or moderate injuries.
 **INFORMATION**	Indicates important information.

1.2 Specific Warnings


CAUTION

There is a risk of injury from the measuring pins of the electrodes for resistance measurement. There is also a risk of injury due to careless handling when piercing / knocking into the material to be measured. Before the electrode pins are pressed / driven into walls or ceilings (e.g. wooden panels or similar), it is essential to ensure by suitable means that there are no electrical cables, water pipes or other supply lines in this location.

2 Device Layout and Button Assignment

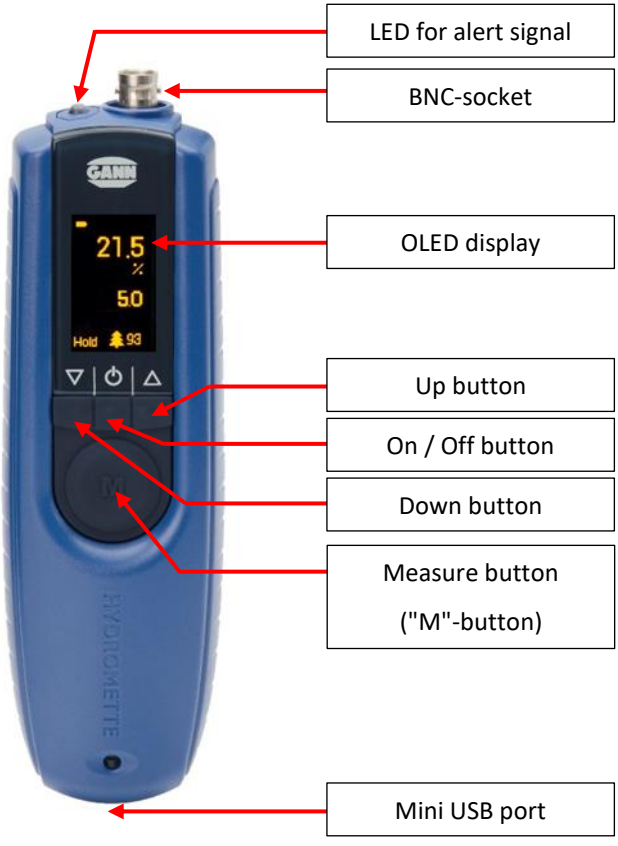

Figure 2-1: Front view of the Hydromette BL A plus

Figure 2-2: Rear view of the Hydromette BL A plus

2.1 Display Symbols: Resistance Measurement

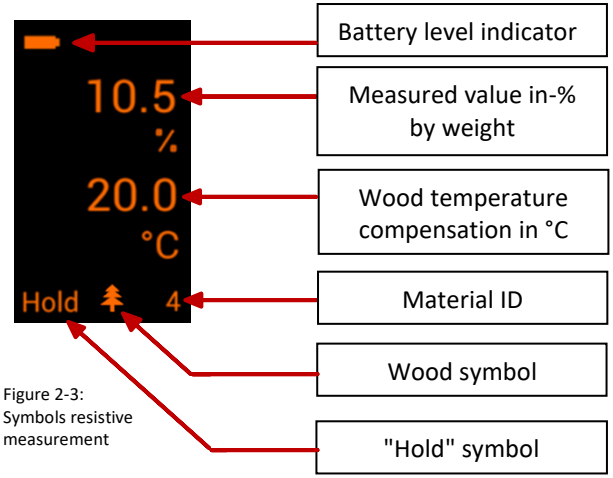

Figure 2-3: Symbols resistive measurement

2.2 Display Symbols: Capacitive Measurement

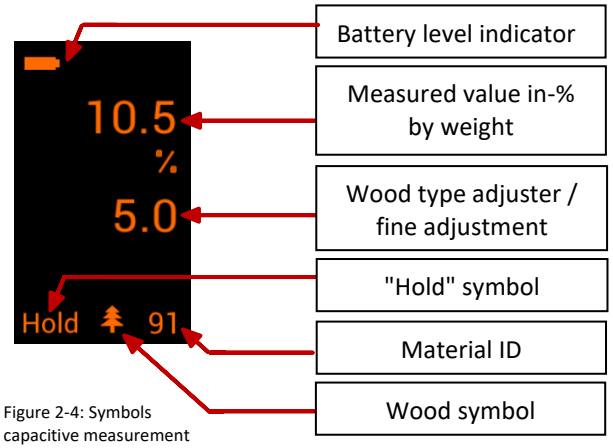

Figure 2-4: Symbols capacitive measurement

2.3 Switching the Device On and Off

Figure 2-5:
Start screen

The device is switched on and off by pressing the "**On / Off**" button ⏻.
The GANN logo is shown on the display while the device is starting up. The device name and the installed firmware version are also displayed. After switching on, the Hydromette BL A plus always starts in the last menu opened. When the device is started for the first time, the Hydromette starts in the basic measurement mode.

2.4 Menu Guidance

The device must be switched on in order to make menu selections. Starting from the measurement menu, you can access other menus by pressing *the* "***Up***"or "***Down***" *buttons*.

Each menu selection must be confirmed by briefly pressing the **"*M*"** button. To leave a menu, either confirm the (changed) menu selection by pressing the "Measure" button or select the **"*Return*"** symbol using the "***Up***" or "***Down***" buttons and confirm by pressing the **"*M*"** button.

Menu selection overview:

1. **Measuring Menu** (Main Menu): The measuring process can be performed here.
2. **Settings:**
   - **Wood type**:
     - Selection of the different wood types for the restistance measurement.

- In this menu, the **measurement mode of the non-destructive measurement** can also be selected by selecting the corresponding material ID.

- **Wood temperature:** Setting the wood temperature for compensation during resistance measurement.
- **Fine adjustment (wood type adjuster):** Selection of the type of wood for non-destructive measurement.
- **Adjustment of the resistance measurement**: The resistance measurement of the Hydromette can be readjusted here using the test adapter for wood moisture.
- **Brightness**: Setting the display brightness.
- **Language**: Setting the menu language.
- **Alert:** Setting the limit value for an optical warning signal.

3. **Average value:** An average of up to five measurements can be output here.
4. **Batches:** Activation or deactivation of storage in batches. Measurements that have already been saved can be viewed and / or deleted.
5. **Memory:** Contains the last ten measurement that were not saved in batches.
6. **ResCap:** Enables fine adjustment of the non-destructive measurement by means of a wood moisture measurement using the resistance measurement. To do this, the electrode pins for the resistance measurement must be driven approx. 20 mm into the material. The measuring device should then be placed on this measuring point and the capacitive measurement adjusted to it.

2.5 Material Selection

The desired material can be selected in this menu by selecting the corresponding material ID or wood type. Several types of wood are grouped in grades 1 to 7. The corresponding material assignment is made using the wood type table supplied with the device. Additional specific measurement curves for wood-based materials are also available. The "Material selection" menu item is not available for batch measurements for which at least one measured value has already been saved. This means that measurements of different materials cannot be saved in a list.

The following materials are available for **resistance measurement**:

Material designation	Material ID	Material designation	Material ID
Type 1	1	OSB3 / OSB4	541
Type 2	2	OSB flame retardant	542
Type 3	3	HFD / 110 D	543
Type 4	4	HFD / 140 D	544
Type 5	5	HFD / 135-170 W	545
Type 6	6	HFD / 180-200 D	546
Type 7	7	HFD / 220-240 W	547
Larch	212	HFD / 250-270 W	548
Pine	207	LVL 21 mm	549
KLB Spruce	373	LVL 39 mm	550
Douglas fir	158	LVL 69 mm	551

Table 2-1: Available materials

OSB: Oriented Strand Board

HFD: Wood fibre insulation materials (listed according to bulk density and manufacturing process): D=Dry / W=Wet

LVL: Laminated Veneer Lumber

The following materials are available for **capacitive measurement**:

Material designation	Material ID
Standardmeasurement ("Normal")	91
Rough sawn wood ("Rough")	92
Thin material thickness ("Thin")	93

2.5.1 Fine Adjustment (Wood Type Adjuster)

The type of wood for the non-destructive measurement can be selected here. **The menu for setting the wood type selector is only available if a setting for non-destructive measurement has previously been selected**. (Standard measurement: Material ID 91 / Rough sawn wood: Material ID 92 / Thin material thickness: Material ID 93).

Extract from the wood sorting table for capacitive measurement:

Wood type	Fine adjustment	Wood type	Fine adjustment
Maple	6,0	Douglas fir	6,0
Beech	8,0	Spruce	5,0
Oak	7,5	Pine, nordic	5,5
Alder	6,5	Larch	6,5
Ash	8,0	Pine	5,0
		Swiss stone pine	4,5

The complete wood sorting table for capacitive measurement can be found in the complete operating instructions.

2.6 Basic Measurement

The basic measurement is the standard measurement function. This is suitable for quick measurements that do not require documentation of the results. The last 10 measured values are simply stored in a ring memory. If limit values are exceeded or undercut, a visual warning signal (red LED) is emitted and a visualisation appears on the display.

2.6.1 Measuring Process

A new measurement is started by pressing the **"M"** button *(> 2 seconds).* During the measurement process, the **"Hold"** symbol disappears from the display. After releasing the **"M"** button, the measured value is held and automatically saved in the ring memory. The oldest stored value is overwritten. The **"Hold"** symbol is displayed again.

The descriptions for batch measurement and average value measurement can be found in the complete operating instructions.

3 Using the Hydromette BL A plus – Resistive

When measuring wood moisture, the two measuring pins must be pressed / hammered into the wood to be measured at right angles to the fibre direction. Please also observe the instructions for measuring wood moisture in the complete operating instructions.

Figure 3-1: Wood moisture measurement – perpendicular to direction of fibres

INFORMATION

For a reliable measurement result, the measurement button must be pressed for at least two seconds. If the material is very dry, the measuring button must be pressed for up to eight seconds.

4 Using the Hydromette BL A plus-Capacitive

The active measuring electrode is located in the upper area of the back of the device. To prevent the hand of the user from influencing the measuring process, the device may only be held in the lower area of the housing both during measurement and during the function check.

The device must be placed completely on the wood to be measured. During the measuring process, the hand of the user must also be placed on the wood to be measured. Please also observe the instructions for measuring wood moisture in the complete operating instructions.

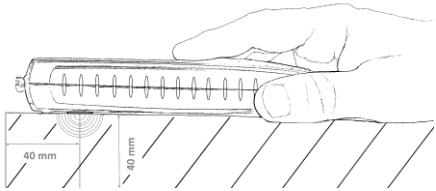

Figure 4-1: Correct handling for capacitive measurement

INFORMATION

Under no circumstances should the device be touched near the active measuring electrode during measurement or inspection.

A new measurement is started by pressing the **"M"** button *(> 2 seconds).*

Do not measure in the area of branches and twists or through bark or cambium.

Measurements with a capacitive wood moisture meter must not be taken on a conductive surface (e.g. metal).

The penetration depth of the capacitive measuring field is approx. 20 mm. This allows the non-destructive measurement of wood thicknesses of up to 40 mm. For wood thicknesses of less than 40 mm (e.g. veneers, mouldings, etc.), either place several layers on top of each other until a minimum thickness of 40 mm is reached, or select the option for thin material thicknesses in the menu (material ID: 93). If material ID 93 is selected, there must be air or e.g. Styrodur below the measuring point.

For correct measurement, please also refer to the chapters "Material selection", "Fine adjustment" (only non-destructive measurement) and the corresponding "Wood type table for non-destructive measurement" in the complete operating instructions.

-Subject to technical changes- Status: March 2025

GANN MESS- U. REGELTECHNIK GMBH
70839 GERLINGEN SCHILLERSTRASSE 63 INTERNET: http//www.gann.de
Verkauf National: TELEFON 07156-4907-0 TELEFAX 07156-4907-40 E-MAIL: verkauf@gann.de
Verkauf International: TELEFON +49-7156-4907-0 TELEFAX +49-7156-4907-48 E-MAIL: sales@gann.de