Quick Start Guide

Version 1.0

HYDROMETTE

BL UNI 11

EN

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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

This quick start guide contains an overview of the most important functions of the Hydromette BL UNI 11. 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-uni-11#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

When using the **ET 10 BL** push-in sensor, there is a risk of injury due to careless handling of the measuring pin when piercing the material to be measured or when measuring temperatures in liquids. Before pressing the electrode pin into solids or bulk materials, it is essential to ensure by suitable means that there are no electrical cables, water pipes or other supply lines at this point.


CAUTION

The electrode TF-IR BL uses a laser in laser class 2 according to IEC 60825-1. The laser must never be directed at people or animals. Do not look directly into the laser beam and avoid reflections on reflective surfaces.

2 Device Layout and Button Assignment

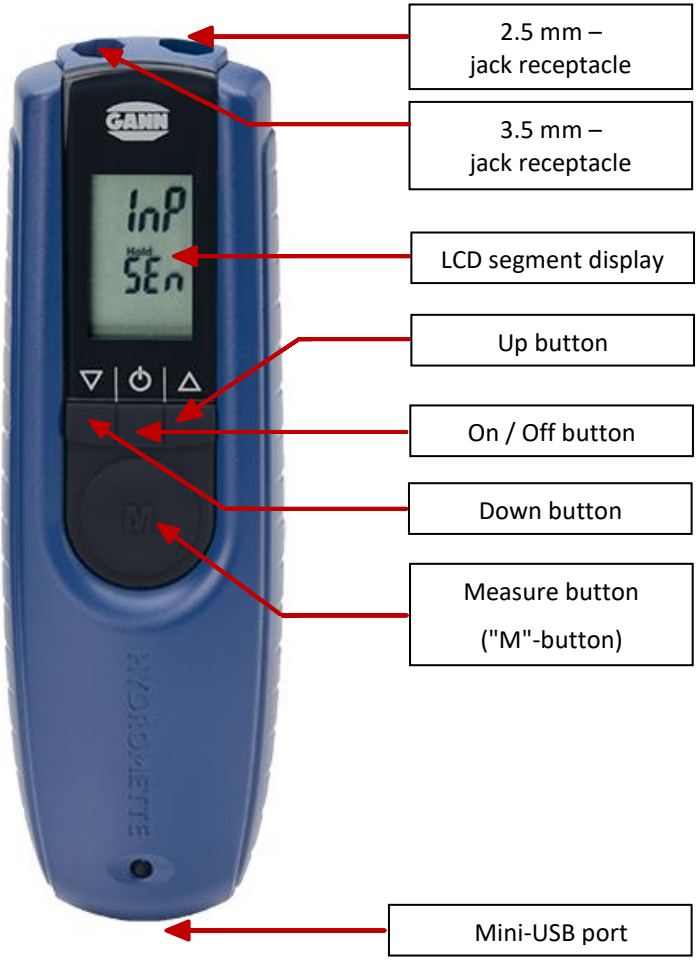

Figure 2-1: Front view of the Hydromette BL UNI 11

2.1 Switch on Device

Figure 2-2: Error message, no accessories recognised

If the instrument is switched on WITHOUT connecting an active electrode or a TF stick by pressing the **"On"** button, the display shows **"InP SEn"**. This message also appears if an active electrode or a TF stick is not correctly plugged into the jack receptacle or if there is a malfunction. No settings are possible with this display.

The Hydromette BL UNI 11 features auto-sensor technology. It automatically recognises the connected electrode and adapts both the menu functions and the measured value display to the respective sensor type.

INFORMATION

The connected electrode is activated by pressing the measurement button for longer than *2 seconds*. If an electrode is connected to the 3.5 mm jack receptacle and a TF stick is connected to the 2.5 mm jack receptacle at the same time, the measurement via the 2.5 mm jack receptacle has priority and the instrument switches off the 3.5 mm jack receptacle. This means that only the values of the TF stick are then displayed.

The device is switched on by pressing the "**On**" button . The Auto-Sensor technology now recognises the connected electrode. To activate capacitive measurement, the measuring button must be pressed for longer than *2 seconds*. The instrument now starts in the measuring menu or main menu. The measuring process can be performed here (see Chapter 2.2.1 "Measurement menu (main menu").

2.2 Setting Menus

The following menu items can be selected one after the other by repeatedly pressing the "**Down**" button.

1. **Measuring menu** (Main menu): The measuring process can be performed here.
2. **Measuring mode selection**: The different measuring modes can be set here. (for TF-IR BL / RH-T 37 BL)
3. **Material setting:** The material selection can be selected here. (for B 55 BL)
4. **Alarm value setting:** A measured value threshold can be set here, which triggers an acoustic signal if it is exceeded. (for B 55 BL)
5. **Laser-pointer- / EM-menu**: This menu can be used to disable/enable the laser pointer and to set the emissivity (EM factor). (for TF-IR BL)
6. **Maximum value display:** The largest measured value is shown here.
7. **Minimum value display:** The smallest measured value is shown here. (for TF-IR BL / RH-T 37 BL)
8. **Memory menu**: The last 5 measured values are stored here. The oldest value is overwritten after each measurement.
9. The menu items are selected in reverse order by pressing the **"Up"** button.

2.2.1 Measuring Menu (Main Menu)

After switching on, the device is in the measuring menu (main menu). The other menus can be accessed from here by pressing the **"Up"** or **"Down"** buttons.

In the measuring menu, the last measured values are displayed according to the measuring mode selection made with the associated units and the note **"Hold"**.

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

During the measuring process, the **"Hold"** symbol disappears from the display. After releasing the **"M"** button, the measured value is held and automatically stored in the ring memory. This overwrites the oldest stored value. The **"Hold"** symbol is displayed again.

If the new measured value is larger than the previous maximum value**, "Max"** flashes on the display. If the new value should be accepted, the **"M"** button must be pressed *briefly (< 1 second)*. If the value should not be saved, a new measurement can be started by *pressing and holding (> 2 seconds)* the **"M"** button without changing the previous maximum value.

If the new measured value is smaller than the previous minimum value, **"Min"** flashes on the display. If the new value should be accepted, the **"M"** button must be pressed *briefly (< 1 second)*. If the value should not be saved, a new measurement can be started by *pressing and holding (> 2 seconds)* the **"M"** button without changing the previous minimum value.

2.2.2 Measuring Mode Selection / Material Setting

The measurement mode selection can be made in this menu. Various setting modes are available (see measuring mode table). The selected mode changes the display of the measuring menu. Depending on the mode, the appropriate physical dimension is also displayed. The measuring mode selection is designed as a ring menu.

An electrode must be connected in order to perform the measurement mode settings. After switching on the device, you should be in the measurement menu (main menu). Press the **"Down"** button once to access the measuring mode selection. If the setting for the measuring mode should be changed now, the **"M"** button must be pressed *briefly (< 1 second)*.

The measuring mode display flashes and can be set using the **"Up"** and **"Down"** buttons. The change is saved by *briefly (< 1 second)* pressing the **"M"** button again.

After confirming the change, the display automatically jumps to the measuring menu of the (newly) selected measuring mode. This removes the values of the previous measuring mode from the display. Any stored **"Max"** or **"Min"** values remain in the memory of the respective measuring mode.

Now a new measurement can be performed by *pressing and holding (> 2 seconds)* the **"M"** button.

3 Display Symbols for various Connections

3.1 Connecting the B 55 BL Active-Electrode

For non-destructive building moisture measurement. By default, the Hydromette BL UNI 11 in conjunction with the active electrode B 55 BL is supplied with the material code "0" (scan mode) as the factory setting.

The Hydromette and the B 55 BL active electrode must be connected to each other via the 3.5 mm jack receptacle. Ensure that the octagonal plug is correctly seated.

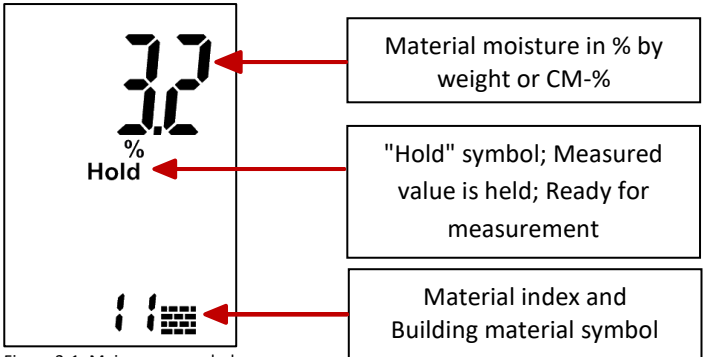

Figure 3-1: Main menu symbols

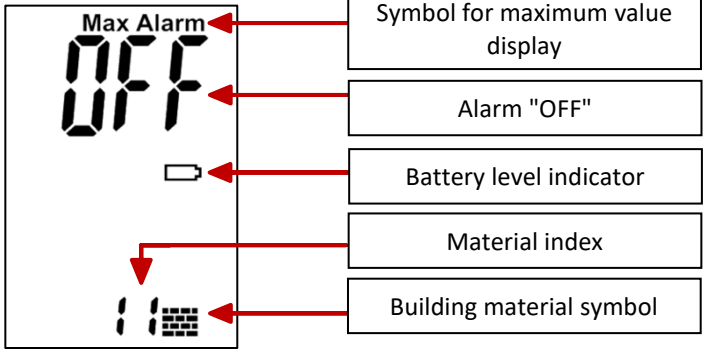

Figure 3-2: Other symbols

3.2 Connecting the TF-IR BL Combination Electrode

For climate measurement (air humidity and air temperature) and infrared surface temperature measurements.

The Hydromette BL UNI 11 and the combination electrode TF-IR BL must be connected to each other via the 3.5 mm jack receptacle. Ensure that the octagonal plug is correctly seated.

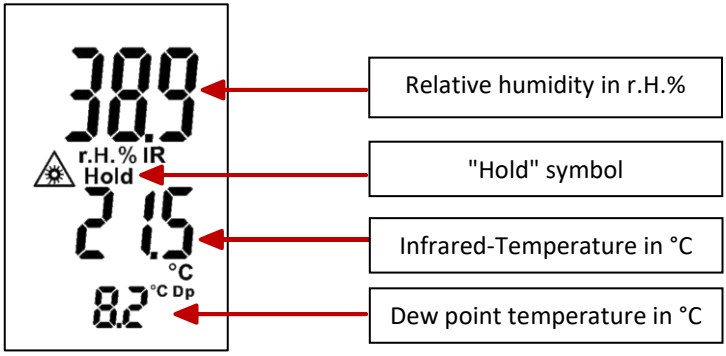

Figure 3-3: Main menu symbols

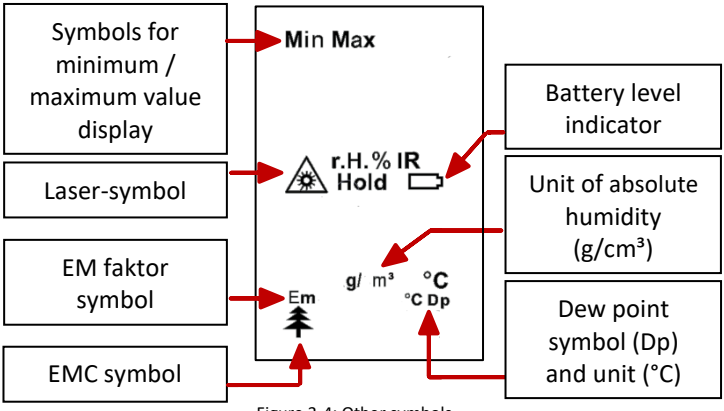

Figure 3-4: Other symbols

3.3 Connection of Special Probes from the RH-T-37 Family and TF sticks

For humidity and air temperature measurement. The Hydromette BL UNI 11 and the special probes from the RH-T-37 family (RH-T 165, 320, RH-T flex 250, 350) must be connected to each other via the 3.5 mm jack receptacle. Ensure that the octagonal plug is correctly seated. When using the TF sticks (16 K-25, 16 K-25 P, 16 K-25 M), the 2.5 mm jack receptacle must be used.

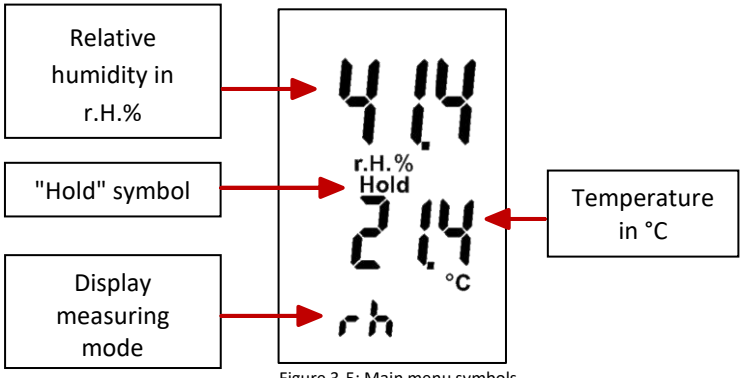

Figure 3-5: Main menu symbols

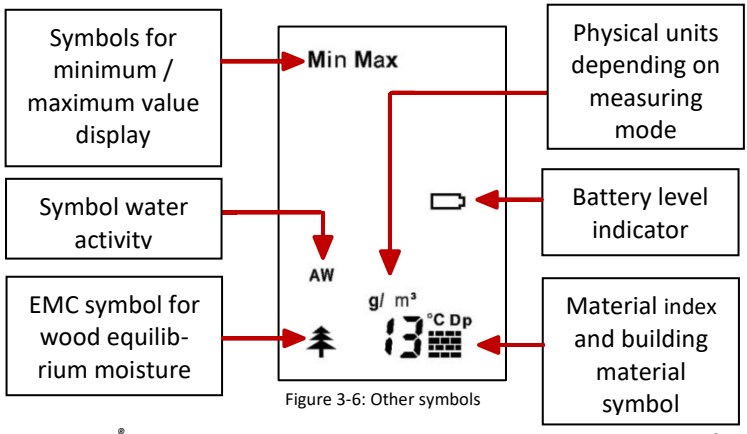

Figure 3-6: Other symbols

3.4 Connection of the Pt100 Temperature Sensor

The Pt100 temperature sensors ET 10 BL, OT 100 BL and TT 40 BL must be connected to the measuring instrument via the 3.5 mm jack receptacle. Ensure that the octagonal plug is firmly seated. The measuring instrument now automatically recognises the connected accessories. To activate the temperature measuring mode, press now the **"M"** button for longer than *2 seconds*.

In conjunction with the Pt100 temperature sensors, the Hydromette BL UNI 11 operates exclusively in temperature display mode. A material setting or direct display in weight or CM % is not possible.

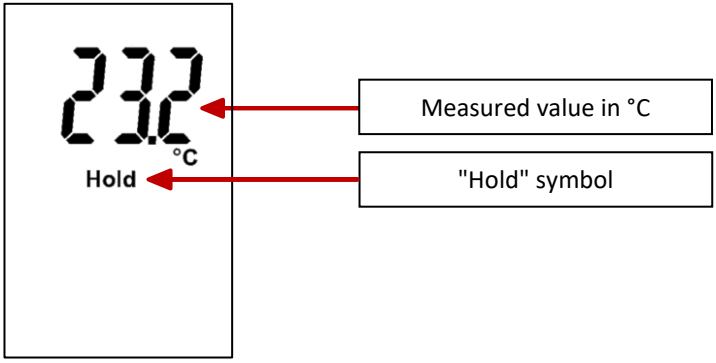

Figure 3-7: Main menu symbols (temperature measurement)

4 Appendix

4.1 Material Table for Active Electrode B 55 BL

Material index	Material
r 0	Display in digits / Scan mode resistiv
2	Wood type 2
3	Wood type 3

11	Cement screed in weight-%
12	Anhydrite screed in weight-%
14	Cement mortar in weight-%
15	Lime mortar in weight-%
17	Gypsum plaster in weight-%
18	Cement screed in CM %
19	Lime sand brick in weight-%
21	Styrofoam in weight-%
50	Anhydrite screed in CM %
51	Gas concrete (Hebel) in weight-%
52	Gypsum screed in weight-%
53	Gypsum screed in CM %
54	Gypsum plaster in CM %
55	Lime mortar in CM %
56	pressed cork in weight-%
57	Xylolite in acc. with DIN in weight-%
58	Cement mortar in CM %
59	Gas concrete (Ytong PPW4) in weight-%
60	Bricks in weight-%
65	Concrete C 20/25 in weight-%
69	Natural cork in weight-%
70	Magnesite screed in weight-%
71	Glass / mineral wool in weight-%

c 0	Display in digits / Scan mode capacitive (only in connection with active electrode B 55 BL)

4.2 Measuring Mode Table

Measuring mode	Display	for Active-Electrodes
"Surface temperature IR"	(rh / t / ir)	TF-IR BL
"Dew point IR"	(rh / ir / Dp)	TF-IR BL
"Relative humidity"	(rh / t / rh)	TF-IR BL / RH-T 37 BL
"Air temperature"	(rh / t / t)	TF-IR BL / RH-T 37 BL
"Dew Point Dp"	(rh / t / Dp)	TF-IR BL / RH-T 37 BL
"Equilibrium wood moisture content, EMC"	(rh / t / UGL)	TF-IR BL / RH-T 37 BL
"absolute humidity"	(rh / Ah)	TF-IR BL / RH-T 37 BL
Enthalpy	(rh / En / En)	RH-T 37 BL
Wet-bulb thermometer	(t / to / to)	RH-T 37 BL
Water Activity	(t / Aw / Aw)	RH-T 37 BL
"Building materials"	(t/building material symbol + material index)– see Material table)	RH-T 37 BL
"Wood"	(t/wood symbol + material index– see material table)	RH-T 37 BL

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