Marrari
AUTOMAÇÃO

DATASHEET
HANDHELD METER · WOOD
EN

M55bt · M56bt

Wood moisture meter, Bluetooth Sword

The sword goes into the stack and reads the core, not just the edge. Detached, the MUG reads boards quickly, spot by spot.



3–75%	0.1%	±1 p.p.	3,000
measuring range (dry basis)	resolution	accuracy on pine	readings in memory

01 WHY USE IT

Moisture from the middle of the stack, without unstacking.

Representative readings
The sword tip reaches several areas of the stack, not just the outside.

Automatic sampling
Takes hundreds of readings in a row for a sweep inspection of the stack.

Data in Umidata
Up to 3,000 readings in 100 batches, downloaded to Umidata for reports.

02 HOW IT WORKS

The set uses the **dielectric method** in two setups: with the **M56bt sword**, the sensor sits at the tip; without it, the active sensor becomes the **M55bt MUG**.

1. **Set the density**
Select the wood density on the M55bt.

2. **Insert the sword**
Push the tip into the core of the stack.

3. **Read or sweep**
Spot reading or continuous sampling, from the meter or the sensor.

4. **Download**
Batches go to Umidata, which builds the reports.

ADJUSTMENT

Right density, right reading

Measuring functions were built for solid planed wood. For rough wood or species not in the table:

- Measure with density 45
- Find the moisture by the oven-dry method
- Measure with density 60
- Interpolate to set the ideal density

03 SPECIFICATIONS



Technical data

Measuring range	3 to 75% (dry basis)
Resolution	0.1%
Accuracy	±1 p.p. on pine · ±2 p.p. on tropical woods
Densities	20 to 120 (100 to 1,200 kg/m³)
Memory	Up to 3,000 readings · up to 100 batches
Display	M55bt: 2.2" LCD
Temperature	Operation up to 85 °C, automatic compensation

Mechanical data

M55bt (meter)	160 × 80 × 33 mm · 250 g
M56bt (sword)	1,098 × 102 mm · 1.8 kg
Sword thickness	Sensor base 12.6 mm · controller base 55.7 mm

04 BATTERY, SOFTWARE AND SERVICES

M55bt battery
Li-polymer 3.7 V · 1,800 mAh
8 h of use and 7 h to recharge. Charging ends when the LED goes off.

M56bt battery
Li-polymer 3.7 V · 1,800 mAh
22 h of use and 7 h to recharge. Use only the charger supplied by Marrari (100–240 Vac, 5 V · 1 A output).

Umidata
Data software
Organizes readings by batch and date and creates moisture and NCV reports in Excel or PDF.

Yearly maintenance
Performed by Marrari
Software update and check against Marrari standards, once a year.

Umilab
Calibration and testing
Calibration and wood moisture testing by the Umilab laboratory: umilab@marrari.com.br.

Warranty
6 months
Made in Brazil, with support and training from the after-sales team: posvendas@marrari.com.br.

General specifications

Method	Dielectric	Communication	Bluetooth between meter and sword
Range	3 to 75% (dry basis)	Battery life	M55bt 8 h · M56bt 22 h
Resolution	0.1%	Accessories	Charger and USB cable for PC
Accuracy	±1 p.p. pine · ±2 p.p. tropical	Documents	M55-56bt manual V4.12 · Annex 05.a
Memory	3,000 readings · 100 batches	Data software	Umidata