

# Electronic Four-in-One Meter

## GANN HYDROMETTE RTU 600

Wood Moisture	Structural Moisture	Air Humidity	Temperature
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Electronic four-in-one meter designed for measurement of wood moisture, structural moisture, air humidity and temperature, with digital LCD readout, automatic temperature compensation for wood temperatures between -10 and 80 °C. and very precise correction facility for all species of wood. Suitable for connection of the active measuring electrodes

- **B 50, B 60 and LB 70** for non-destructive location of moisture concentration in building materials,
- **MB 35** for surface moisture measurement of concrete,
- **MH 34** for measurement of high moisture content (40 to 200 % m.c.) in coniferous wood,
- **IR 40** for measuring surface temperature, thermal bridges and dew point,
- **RF-T 28, RF-T 31, RF-T 32, RF-T 36 and RH-T 37** for air humidity and air temperature measurement as well as all **PT 100** probes of our range of temperature sensors.

### Measuring ranges:

- **Wood moisture:**
  - 4 to 100 % m.c.
  - 40 to 200 % m.c. with coniferous wood using MH 34 probe.
- **Structural moisture:**
  - 0 to 80 digits, conversion into % of dry weight by graph.
  - 0 to 199 digits, scanning range using probe B 50, B 60 or LB 70 for determination of moisture concentration, classification by table, or
  - 0.3 to 8 % of dry weight by conversion table, using probe B 50, B 60 or LB 70.
  - 2 to 8 % of dry weight on testing concrete surfaces by probe MB 35.
- **Air Humidity:**
  - 7 to 98 % R.H.
- **Temperature:**
  - 200 to 600 °C using PT 100 sensor.
  - 20 to 199.9 °C using infrared surface sensor IR 40.
  - 10 to 80 °C using RF-T and RH-T probe.
  - 0 to 70 °C using RH-T probe.



Ref. No. 1670

Meter without accessory

The very best of its kind, the **GANN HYDROMETTE RTU 600**, is the culmination of **over 45 years' experience** in moisture and temperature measurement and has been specially developed for **architects, housing contractors, surveyors** or anyone requiring reliable measuring in order to avoid or to assess complaints. This instrument is of course also ideal for monitoring artificial or natural **timber drying**. The **HYDROMETTE RTU 600** incorporates a highly sophisticated, fully electronic **4-circuit measuring system** for fast, accurate measurements. The four integrated measuring ranges can perform tasks which previously required several different instruments.

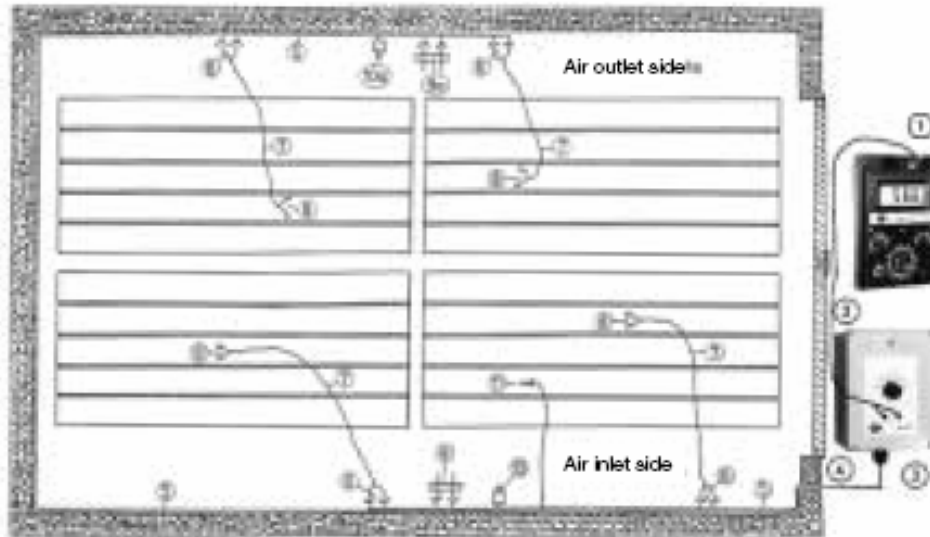
**Principal features and technical data:**

- **Handy moisture meter and thermometer** for rapid single and series measurements.  
*Length 180 mm × width 115 mm × height 53 mm; weight 390 g without accessories.*
- **Direct reading by digital LCD readout.** Resolution 0.1 % or 0.1 °C.
- **Fully automatic calibration** – no manual adjustment necessary.
- **Automatic compensation of wood temperature** in the range between –10 and 90 °C.
- **Highest accuracy of readings** by individual meter setting depending on species of wood.
- **Non-destructive structural moisture measurement** using active electrodes B 50, B 60 and LB 70.
- **Fast measurement of moisture of set building materials** using the resistance measuring method.
- **Precise temperature measurement** by use of quadruple conductor PT 100 temperature probes.
- **Power supply** by long-life 9 V battery IEC 6 F 22 or optionally by rechargeable battery.

Suitable for use with electrodes	for Wood Moisture:	M 18, M 20, M 20-OF 15, M20-HW 200/300, MH 34
	for Structural Moisture:	M 6, M 6-150/250, M 6-Bi 200/300, M 20, M 20-OF 15, M 20-Bi 200/300, M 21-100/250, M 25, MB 35, B 50, B 60, LB 70, RF-T 31, RF-T 36, RH-T 37
	for Air Humidity:	RF-T 28, RF-T 31, RF-T 32, RF-T 36, RH-T 37
	for Temperature:	IR 40, OT 100, OTW 90, ET 10, ET 50, TT 30/40, LT 20, FT 2-FT 30

# Monitoring kiln drying timber using **HYDROMETTE** wood moisture meters HT 85 T, RTU 600, M 2050 or M 4050

Example for arrangement of measuring points for wood moisture (MC), wood equilibrium moisture (EMC) and kiln temperature.



- 1 Hydromette HT 85T, RTU 600, M 2050 or M 4050
- 2 MK 8 for connection of measuring instrument to measuring point selector TKMU (for taking MC and EMC readings) or MK 15 (for taking temperature readings).
- 3 Measuring point selector TKMU-6
- 4 Cable duct (to be sealed on the inside)
- 5 Fix installed connecting cable for each MC and EMC measuring point. Standard length 10 m, other lengths on request.
- 6 Wall connector for wood moisture measuring points
- 7 Electrode connecting cable (loose special cable in any desired length with plugs at both ends, standard length 4 m)
- 8 2 stainless steel electrodes for wood moisture measurement, standard lengths 10 mm, 15 mm and 25 mm
- 9 Wall connector with EMC electrode holder mounted on the air inlet side of the kiln load
- 9a Wall connector with EMC electrode holder mounted on the opposite side with reversing type dry kilns
- 10 Temperature probe for measurement at forward run of the fans
- 10a Temperature probe for measurement at inverse run of the fans
- 11 Sensor for internal wood temperature (optional device)



③  
**TKMU-6**  
measuring point  
Selector



⑧  
**Wood moisture**  
Measuring point



⑨  
**Wall connector**  
with EMC electrode  
holder and sensor

## More efficient drying means safer drying

In drying kilns without automatic control system with wood moisture measuring device it is recommendable for cost and safety reasons to monitor the drying cycle by accurate MC, EMC and temperature measurement. This task can be solved inexpensively and with relatively little effort by using this outstanding measuring device.

# Electrodes for Wood Moisture Measurement



## Drive-in electrode M 20

For measurement of timber up to 50 mm thick. Electrode body of impact resistant plastic. Included in the delivery are ten spare pins 16 mm and 23 mm

**Ref. No. 3300**



## Modification Set M 20-DS 16

For use of thinner pins (1.6 mm Ø) for testing timber up to 30 mm thick, consisting of 2 cap nuts (# 3530) and 50 spare pins (# 4600)

**Ref. No. 4310**



## Surface measurement caps M 20-OF 15

For moisture measurements on veneer up to a depth of about 3 mm and surface measurement without damaging the material. Only in conjunction with electrodes M 18 and M 20.

**Ref. No. 4315**



## Active electrode MH 34

With integrated measuring circuit for measurement of high moisture contents in coniferous wood, specially in case of water-borne storage and for pre-sorting of freshly cut timber for kiln drying.

**Measuring range: 40 to 200 % m.c.**

**Ref. No. 3370**



## Ram-in electrode M 18

For measurement in depth of timber up to about 180 mm thick. Included in the delivery are ten spare pins 40 mm and 60 mm long.

**Ref. No. 3500**

Teflon insulated electrode needles for point measurements at different depths available on special order.

45 mm long

**Ref. No. 4550**

60 mm long

**Ref. No. 4500**



## Stick-in electrode pins M 20-HW 200/300

Non-insulated pins for use with electrode M 20 for moisture checks on chips, woodwool, veneer piles, etc.

Length 200 mm

**Ref. No. 4350**

Length 300 mm

**Ref. No. 4355**

200 mm / 300 mm

# Accessories for Meters and Electrodes



## Carrying Case I

For Hydromette H 35 and HT 65 with standard accessory.

Ref. No. 5051



## Carrying Case IV

For Hydromette H 35, HT 65, UNI 1, UNI 2 and HB 30 with standard and optional accessory.

Ref. No. 5084

## Carrying Case V

For Hydromette HT 85 T, RTU 600, M 2050 and M 4050 with standard and optional accessory.

Ref. No. 5085



## Contact Paste

For testing hard building materials (flooring, concrete) in conjunction with electrodes M 6 and M 21.

Ref. No. 5400



## Measuring cable MK 8

Suitable for all meters and electrodes.

Ref. No. 6210



## Measuring cable MK 15

For connection of TKMU to the meter for temperature measurement.

Ref. No. 6710



## Rechargeable battery

With charging unit suitable for all meters.

Ref. No. 5100



## Silicone heat conducting paste

To improve heat transmission on rough surfaces or where there are contact problems. Unconditionally recommended with OT 100.

Ref. No. 5500