

Electronic Three-in-One Meter

GANN HYDROMETTE HT 85 T

Wood Moisture	Structural Moisture	Temperature
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Triple measuring instrument for wood moisture, structural moisture and temperature, with digital LCD readout and correction facility for four groups of wood and automatic temperature compensation. Designed for precise measurement of wood (up to 180 mm thick), particleboard, veneer and hardened building materials as well as for monitoring kiln drying timber using any desired number of MC, EMC and temperature in-kiln measuring points.

Measuring ranges: 4 to 100 % m.c. with wood.
0 to 80 digits corresponding to 0.5 to 25 % of dry weight with building materials, conversion by evaluation graphs.
-50 to +199.9 °C for temperature measurements.

Principal features and technical data:

- Handy quick moisture meter for fast single and series measurements.
Size: L 180 mm × W 115 mm × H 53 mm. Weight: 370 g without accessory.
- Direct reading by digital LCD, resolution: 0.1 % m.c. or 0.1 digits resp.
- Wood species selector for automatic correction of readings, for **over 300 species of wood**.
- Automatic compensation of influence of wood temperature between -10 and +90 °C.
- Fast measurement of moisture of hardened building materials using the resistance method.
- Precise temperature measurement by Pt 100 probes in 4-conductor technology.
- Fully automatic instrument setting – no manual adjustment necessary.
- Power supply by 9 V dry cell or, optionally, Ni-Cd accumulator.

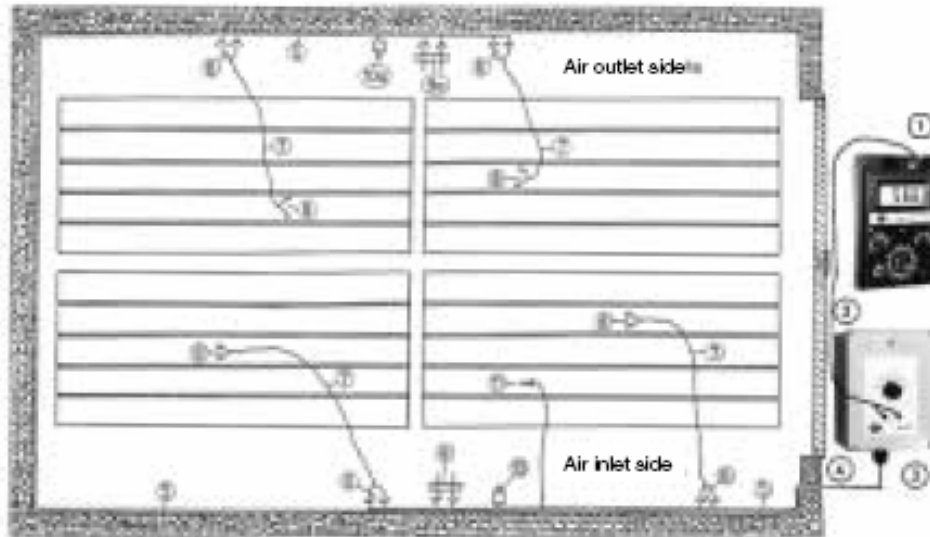
Suitable probes for wood moisture measurement:	M 18, M 20, M 20-OF 15, M 20 HW 200/300
for structural moisture measurement:	M 6, M 6-150, M 6-250, M 6-Bi 200/300, M 20, M 20-OF 15, M 20-Bi 200/300, M 21-100/250, M 25
for temperature measurement:	OT 100, OTW 90, ET 10, ET 50, TT 30/40, LT 20, FT 2-FT 30



Ref. No. 1370
(without accessory)

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