



Ref. No. 1670  
Meter without accessory

## Electronic Four-in-One Meter GANN HYDROMETTE RTU 600

Wood Moisture    Structural Moisture    Air Humidity    Temperature

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.

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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

# 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  $\varnothing$ ) 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**

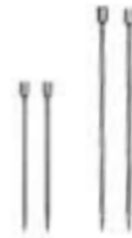


**Active electrode MH 34**  
With integrated measuring circuit for measurement of high moisture contents in coniferous wood, specially in case of water-borne storage and for pre-sorting of freshly cut timber for kiln drying.  
**Measuring range: 40 to 200 % m.c.** **Ref. No. 3370**



**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

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# Active Electrodes for Moisture Measurement in Building Materials



**Drive-in electrode M 20**  
For measurements of soft, set building materials (plaster, gypsum, etc.). The electrode body is of impact resistant plastic, including 10 spare pins 16 mm and 23 mm long.  
**Ref. No. 3300**



**Surface measuring caps M 20-OF 15**  
For moisture measurements on surfaces without damaging the material. Effective up to depth of approx. 3 mm. (Only to be used with electrode M 20).  
**Ref. No. 4315**



**Stick-in electrode M 6**  
For measurement on hard, set building materials (mortar, concrete, etc.). With ten spare pins 40 mm and 60 mm long (only to be used with contact paste).  
**Ref. No. 3700**



200 mm/300 mm

**Flat electrode pair M6-Bi 200/300**  
For measuring concrete or insulation materials in corner or expansion joints (with insulated shank).  
10 x 0.8 x 200 mm **Ref. No. 3702**  
10 x 0.8 x 300 mm **Ref. No. 3703**



**Pair of brush electrodes M 25**  
of stainless steel, with insulated shaft, for measurements on hard and soft building materials without contact paste.  
**Ref. No. 3740**



**Stick-in electrode pins M 20-Bi 200/300**  
For measurement of materials hidden beneath another panel or covering, with insulated shaft.  
200 mm in length **Ref. No. 4360**  
300 mm in length **Ref. No. 4365**  
(only to be used with electrode M 6 and M 20)



**Deep electrodes M21-100/250**  
For deep measurements of all kinds of set building materials in conjunction with contact paste.  
100 mm in length **Ref. No. 3200**  
250 mm in length **Ref. No. 3250**



**Stick-in electrode pins M 6-150/250**  
Extra thin probes for measuring the moisture content in building and insulating materials over expansion joints or through intersecting tile joints, non-insulated. For use with electrodes M 6 and M 20.  
150 x 3 mm  $\varnothing$  **Ref. No. 3706**  
250 x 2 mm  $\varnothing$  **Ref. No. 3707**

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## Active Electrodes for Moisture Measurement in Building Materials



### Active electrode MB 35

with integrated measuring circuit, designed for surface measurement on concrete, in particular before coating, painting or colour marking.

**Measuring range:** 2 to 8 % of dry weight

Ref. No. 3770



### Active electrode B 50

with integrated measuring circuit, designed for non-destructive location of moisture concentration in building materials and moisture distribution in walls, ceilings and floors. The electrode uses a patented process to create a high frequency field with a penetration depth up to 120 mm depending on the density of the tested building material.

**Measuring range:** 0 to 199 digits scanning range (classification according to table).  
0.3 to 8.5 % of dry weight, conversion of reading by table,  
0.3 to 6.5 % CM, conversion of reading by table.

Ref. No. 3750



### Active electrode B 60

with integrated measuring circuit, designed for non-destructive location of moisture concentration in building materials and moisture distribution in walls, ceilings and floors. The electrode uses a patented process to create a high frequency field with a penetration depth up to 120 mm depending on the density of the tested building material. With additional selector for setting a limit value between 20 and 140 digits and acoustic Signal generator.

**Measuring range:** 0 to 199 digits scanning range (classification according to table).  
0.3 to 8.5 % of dry weight, conversion of reading by table,  
0.3 to 6.5 % CM, conversion of reading by table.

Ref. No. 3760

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## Active-Electrodes for Moisture Measurement in Building Materials



### ACTIVE ELECTRODE LB 70

with integrated measuring circuit, designed for non-destructive location of moisture concentration in building materials and moisture distribution in walls, ceilings and floors. The electrode uses a patented process to create a high frequency field with a penetration depth up to 120 mm depending on the density of the tested building material.

**Measuring range:** 0 to 199 digits scanning range (classification according to table).  
0.3 to 8.5 % of dry weight, conversion of reading by table,  
0.3 to 6.5 % CM, conversion of reading by table.

**Telescopic sensor:** length 80 to 120 cm

Ref. No. 3755



### ACTIVE ELECTRODE RH-T 37

for measurement of air temperature, air humidity and of water activity or equilibrium moisture in bulk and solid materials, e.g. masonry, suitable for determining via sorption isotherms whether the condition of solidified building materials allows to proceed with further work.











**Measuring range:** 0–70 °C and 5–98 % R.H.  
**Sensor tube:** 150 × Ø 5 mm.

Ref. No. 3140

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## Electrodes for Temperature Measurement

### PT 100 temperature sensors

	<b>ET 10</b>	Robust stick-in temperature sensor for solid substances, bulk materials and fluids, length of probe 100 mm, Ø 3 mm, measuring range -50 to 250 °C	<b>Ref. No. 3165</b>
	<b>TT 40</b>	Robust immersion and combustion gas temperature sensor, length of probe 480 mm, dia. Ø 5 mm, measuring range -50 to 350 °C	<b>Ref. No. 3180</b>
	<b>LT 20</b>	Fast reacting air/gas temperature sensor with probe 480 mm long, dia. Ø 5 mm, Measuring range -20 to 200 °C	<b>Ref. No. 3190</b>
	<b>TT 30</b>	Robust immersion and combustion gas temperature sensor, length of probe 230 mm, dia. Ø 3 mm, measuring range -50 to 350 °C	<b>Ref. No. 3185</b>
	<b>ET 50</b>	Fast reacting stick-in temperature sensor for soft solid substances, bulk materials and Fluids, length of probe 120 mm, dia. Ø 3.0/2.3 mm, measuring range -50 to 300 °C	<b>Ref. No. 3160</b>
	<b>OTW 90</b>	Angled special surface temperature sensor for use at veneer presses etc., length of probe 100 mm, dia. Ø 5 mm, measuring range -50 to 250 °C	<b>Ref. No. 3175</b>
	<b>OT 100</b>	Spring loaded, low mass surface temperature sensor, for use on wall surfaces, etc. Length of probe 110 mm, dia. Ø 5 mm, measuring range -50 to 250 °C	<b>Ref. No. 3170</b>
	<b>OTW 480</b>	Angled special surface temperature sensor for use at veneer presses etc., length of probe 480 mm, dia. Ø 5 mm, measuring range -50 to 600 °C	<b>Ref. No. 3176</b>
	<b>TT 480</b>	Robust immersion and combustion gas temperature sensor, length of probe 480 mm, dia. Ø 5 mm, measuring range -50 to 600 °C	<b>Ref. No. 3181</b>
	<b>TT 600</b>	Robust immersion and combustion gas temperature sensor, length of probe 600 mm, dia. Ø 5 mm, measuring range -50 to 600 °C	<b>Ref. No. 3182</b>

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## Flexible Pt 100 Temperature Sensors



**Temperature probe FT**  
with connection cable and 7-pin plug 5 mm dia.  
Measuring range: -20 to +120 °C

<b>FT 2</b> with connection cable	2 m long	<b>Ref. No. 3195</b>
<b>FT 5</b> with connection cable	5 m long	<b>Ref. No. 3196</b>
<b>FT 10</b> with connection cable	10 m long	<b>Ref. No. 3197</b>
<b>FT 20</b> with connection cable	20 m long	<b>Ref. No. 3198</b>
<b>FT 30</b> with connection cable	30 m long	<b>Ref. No. 3199</b>



### Infra-red Surface Temperature Sensor IR 40

Contactless temperature measurement from -20 to +199.9 °C, resolution to 0.1 °C, emission degree 95 %, ratio of measured area to distance 2.5 : 1 (diameter 45 mm at a distance of 100 mm), sensor length 185 mm, diameter 32 mm, coiled cable 400/1400 mm.

An ideal sensor for detection of heat bridges, determination of the dew point temperature, measurement of live, moving or vibrating components as well as measurement of components with low heat capacity, e.g. wood, glass, insulating materials, etc., as well as for finding heating coils.

**Ref. No. 3150**

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## Electrodes for measurement of air relative humidity



### Special electrode RF-T 28

For high-speed testing of air relative humidity and air temperature, complete with connection cable.

**Measuring range:** 7 to 98% R.H.,  
-10 to +80 °C.

**Ref. No. 3155**



### Plug-in Sensor RF-T 31

For measurement of atmospheric moisture, water activity value or equilibrium moisture in bulk materials and solid substances, e.g. brickwork and other building materials.

**Measuring range:** 7 to 98% R.H., -10 to +80 °C. Diameter 10 mm, sintered filter tip 32 mm long.

**Insertion length 250 mm**

**Ref. No. 3131**

**Insertion length 500 mm**

**Ref. No. 3132**



### Special electrode RH-T 37

for measurement of air temperature, air humidity and of water activity or equilibrium moisture in bulk and solid materials, e.g. masonry, suitable for determining via sorption isotherms whether the condition of solidified building materials allows to proceed with further work.

**Measuring range:** 0-70 °C and 5-98 % R.H.,  
**Sensor tube:** 150 × Ø 5 mm

**Ref. No. 3140**



### Blade Sensor RF-T 32

For measurement of atmospheric humidity, water activity value and equilibrium moisture in paper, leather, textile and tobacco stores etc.

**Range of Measurement 7 to 98 % R.H., -10 to +80 °C.** Flat elliptical probe approx. 10 × 4 mm

**Insertion length 250 mm**

**Ref. No. 3133**

**Insertion length 500 mm**

**Ref. No. 3134**



### Special electrode RF-T 36 T

For measurement of air humidity and air temperature, water activity value or equilibrium moistures in rooms, warehouses or solid substances (e.g. concrete, subflooring, masonry, etc.)

**Measuring range:** 5 to 98% R.H.,  
-5 to +60 °C.

**Ref. No. 3136**



### Special electrode RF-T 36 T

For stationary installation for measurement of air humidity and air temperature in rooms, warehouses etc., technical details as with RF-T 36 but in transducer design with output 0 to 20 mA for temperature and humidity.

**Ref. No. 3138**