GANN

HYDROMETTE® CH 17

The Hydromette® CH 17 is a multifunctional measuring instrument for measuring wood moisture, building moisture and air humidity as well as temperature and air velocity.

The robust touch display in combination with modern evaluation and storage possibilities enables a completely new variety of options.

In the field of wood moisture measurement, different resistance measurement electrodes are used depending on the thickness and texture of the wood. Thus precision measurements of sawn timber (up to 180 mm thickness), chipboard and OSB boards, veneers, wood chips and similar bulk materials are possible. The automatic temperature compensation corrects measured values depending on the wood temperature.

The capacitive measuring method is used for the non-destructive moisture measurement of building materials (e.g. screeds, mortars, plasters, concrete, bricks, thermal insulating materials). This time-saving application method is ideal for detecting leaks or for monitoring drying processes in new buildings or during renovation work.
Special resistance measurement electrodes are available for the creation of exact moisture profiles and for depth measurements in building materials for the various application purposes.

Humidity and air temperature are measured by RF-T and RH-T series probes that are equipped with high quality sensors.
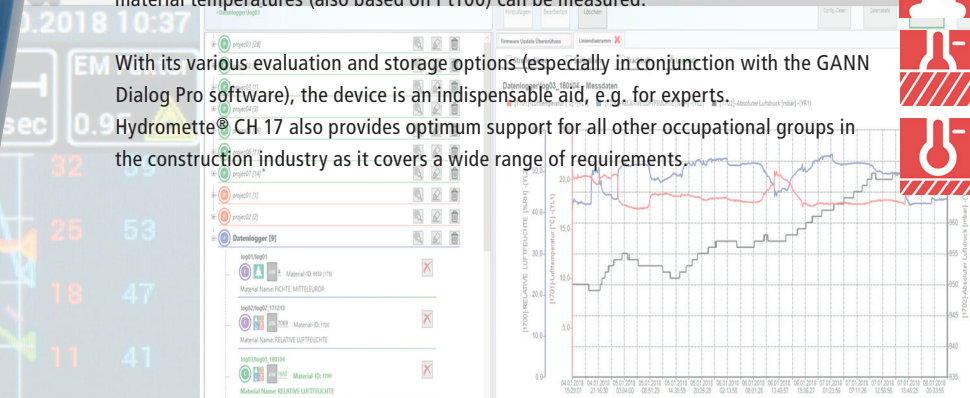
In addition to air temperature, surface temperatures (based on Pt100 or infrared) and material temperatures (also based on Pt100) can be measured.

With its various evaluation and storage options (especially in conjunction with the GANN Dialog Pro software), the device is an indispensable aid, e.g. for experts.
Hydromette® CH 17 also provides optimum support for all other occupational groups in the construction industry as it covers a wide range of requirements.

HIGHLIGHTS & FEATURES

- 3.5" TFT colour display (resolution: 320 x 240 pixels)
- Modern operating concept: Operation via capacitive touch input and haptic silicone buttons
- Status LEDs indicate the different device states
- Multifunctional device for all available application areas
- Loudspeaker
- Mini-USB port
- Micro SD card slot for using an external memory card
- Integrated sensor for measurement of the absolute air pressure
- Context-sensitive help function
- Screenshot function
- Individual characteristic curves for 250 types of wood and for more than 20 types of building material
- Processing & evaluation of measurement data via the new GANN Dialog Pro software
- Power supply: 6x 1.5 V AA batteries or external power supply via USB (connection of a power bank is possible)
- Meets the requirements of EN 14080:2013 (glued laminated timber, glued solid timber) and EN 15497:2014 (structural finger jointed solid timber)

Modern Operating Concept

The Hydromette® CH 17 is operated via its capacitive display and via haptic buttons.

Software updates via the Internet

The device software can be updated using the GANN Dialog Pro PC program - on the one hand, to enable new functions in the device, or on the other hand, to install service patches.
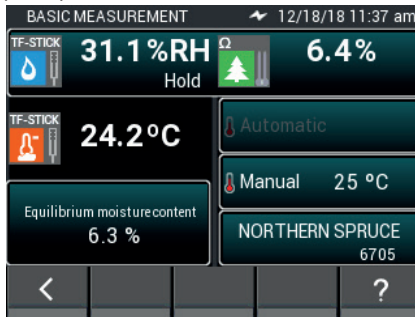
Various Software Licences

Various software licences are available for the Hydromette® CH 17. These differ in the range of functions as follows:

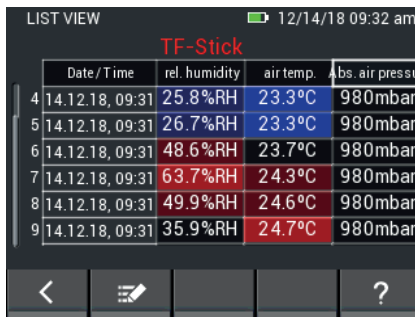|	Basic	Advanced
Selection of language	✓	✓
Systems of units (metric/imperial)	✓	✓
Alarm values	✓	✓
Screenshot function		✓
Basic measurement	✓	✓
List measurement	✓	✓
Grid measurement with directional setting options		✓
Mean value measurement	✓	✓
Data logging function, tabular and graphic		✓
Projects and batches in internal memory	✓	✓
Projects and batches on SD card		✓

MEASUREMENT FUNCTIONS

Basic Measurement

For individual measurements without project context. In the example, the left half of the display shows measurement data of a connected TF stick, on the right the data and settings of a wood moisture measurement using the example of Central European spruce.
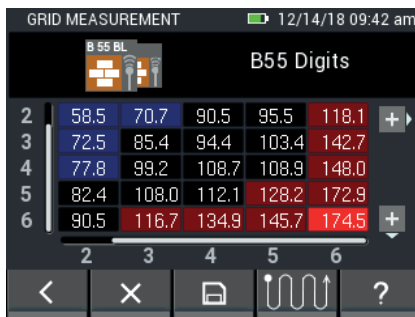

List Measurement

Measured values can easily be stored one after the other (with date and time). The fields highlighted in colour provide additional information (e.g. min/max).
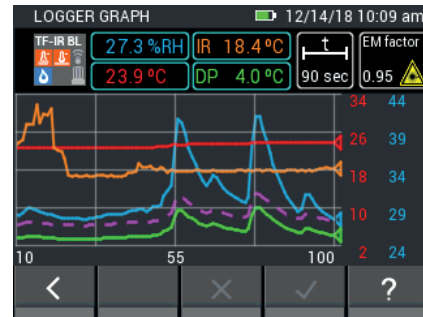

Grid Measurement

The Hydromette® CH 17 enables the display of variable measuring grids (max. 10x10). Differences from the average value are displayed in colour.
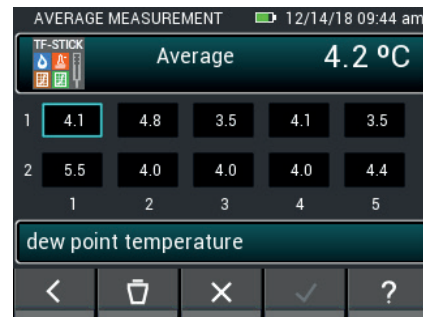

Graphical Log Function

Provides a quick overview of the given conditions. The graphic can be saved after the measurement and used for later evaluation. The figure shows various climate data and the resulting variables, such as the dew point temperature.
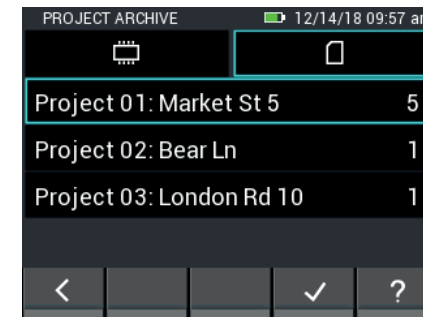

Mean Value Measurement

Provides the ability to detect a trend (for reference values) from up to 10 measured values. This makes it easier to carry out comparative measurements.

Data Structure

Project > Batch > Measurement – projects and batches can be named individually to structure and manage the measurements.
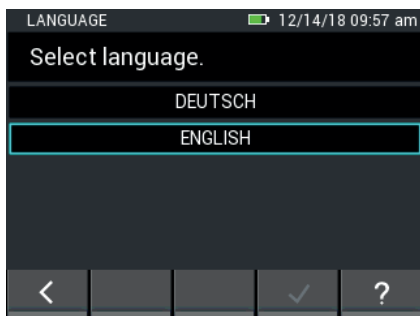
Data Logger

For long-term climate monitoring (humidity and air temperature) with subsequent evaluation via the GANN Dialog Pro software. Up to 31 days can be recorded; the number of measured values depends on the specified interval.

Menu guidance in various languages

The menu guidance is currently available in German and English. The language can be changed at any time.

Screenshot function

No more photographing the display necessary - makes documentation of the measured values easier.

AIR FLOW MEASUREMENT & CLEAN ROOM APPLICATION

In combination with the LG-25 BL air speed sensor, the Hydromette® CH 17 is ideal for measuring the smallest air flows and is characterised by long-term stability, direction recognition and fast commissioning.

Documentation of the measurements is easy to create by storing the measured values with time stamp and sensor serial number. The air speed sensors are optionally available with ISO calibration certificate.
For clean room applications, a high-precision calibration for the range around 0.45 m/s is also possible.

One instrument – a wide variety of measuring options!
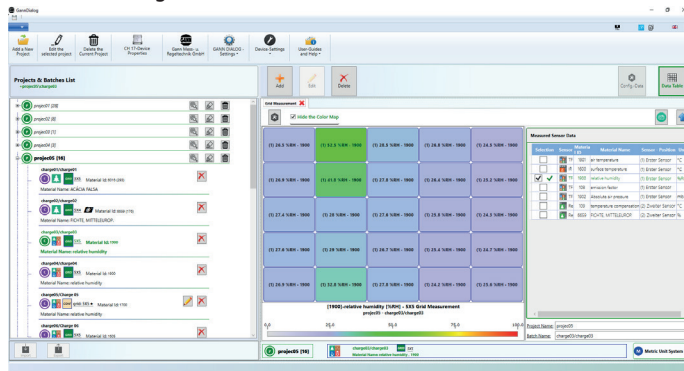
PC SOFTWARE GANN DIALOG PRO

Program for transmission, storage and evaluation of measurement data.
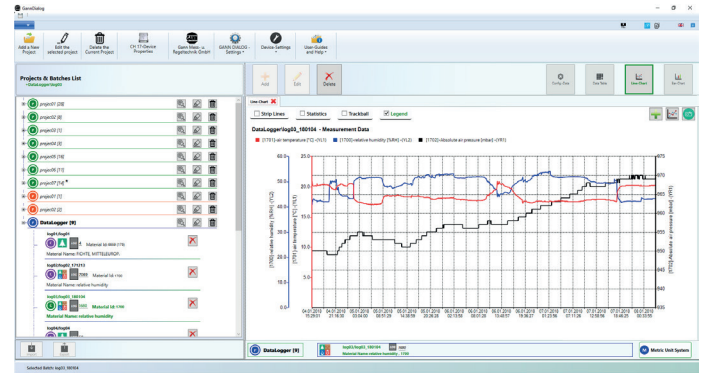
HIGHLIGHTS & FEATURES

- Export of preconfigured measurement parameters (GANN Dialog Pro -> CH 17)
- Import of measurement data (GANN Dialog Pro <- CH 17)
- Local archiving of measurement data
- Automatic backups of measurement data
- Measurement data analysis
- Export of measurement data to Excel, image or CSV files
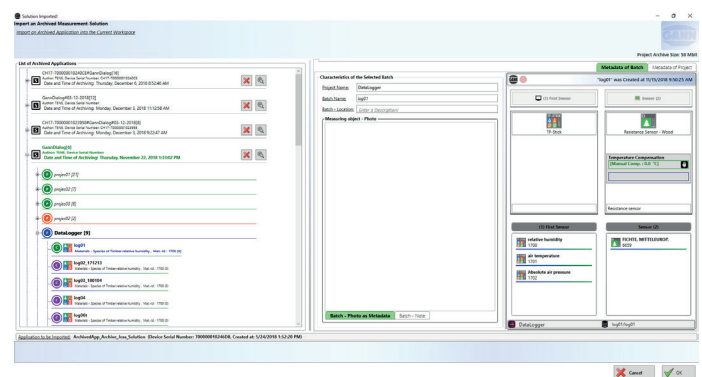- Updates and upgrades of the Hydromette® CH 17 device firmware

FUNCTIONS - EXAMPLES

Evaluation of a grid measurement

Evaluation of the climate recording, including graphic

Use of the data archive

Note about Hydromette® CH 17 firmware updates