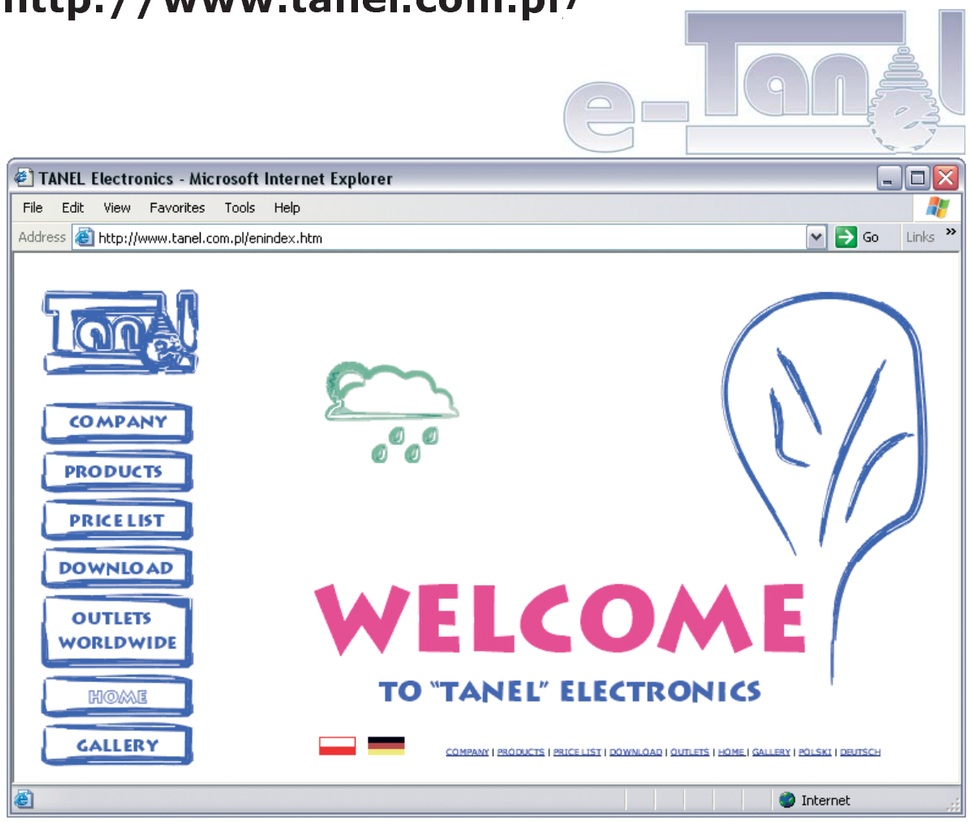
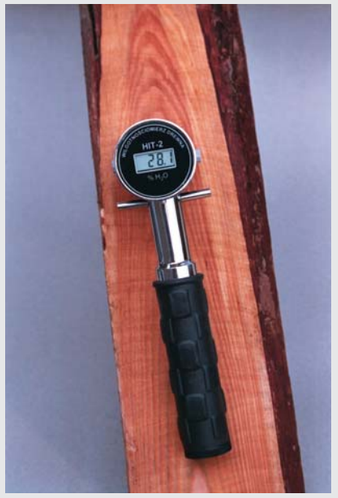
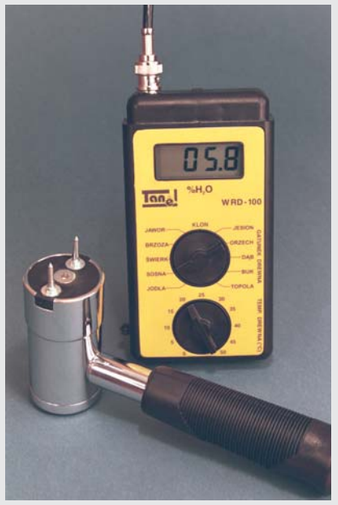
Additional info, technical data, users manuals and price list are available at our website.

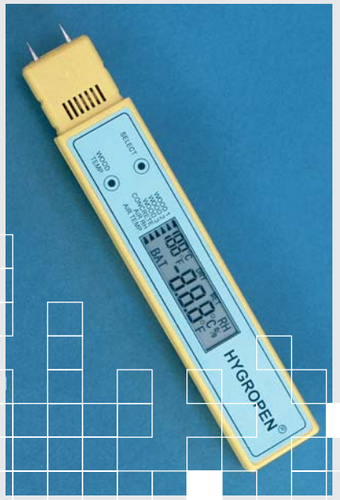
http://www.tanel.com.pl/



TANEL ELECTRONICS
POLAND, 44-100 GLIWICE, KOPERNIKA 121
tel./fax +48 32 234-96-15, +48 32 238-16-15
E-mail: info@tanel.com.pl
WWW: http://www.tanel.com.pl/







ELECTRONIC MOISTURE METERS

WOOD

WOOD MOISTURE METER HIT-2

Wood Moisture Meter "HIT-2" is a modern electronic device for measuring moisture contents in wood within the range of 6% to 50%. It is equipped with wood type and temperature compensation control knobs. The whole device is built in a shape of a hammer electrode with the LCD at the top and the control knobs at the sides. It can be used for over 270 different wood types. (1)*

WOOD MOISTURE METER WRD-30

Wood Moisture Meter WRD-30 is an affordable electronic device for measuring wood moisture contents within the range of 6% to 30%. It can be used to measure moisture contents in 11 different types of wood. The readings are displayed using LEDs.
The Wood Moisture Meter WRD-30 without an official test certificate is sold under the name **D-3**. (3)(4)

WOOD MOISTURE METER WRD-100

Wood Moisture Meter WRD-100 is a state-of-the-art electronic device for measuring moisture contents in wood within the range of 6% to 100%. It can be used to measure moisture contents in 11 different wood types. The Moisture Meter is equipped with wood type and temperature compensation control knobs. The whole set includes the device, hammer electrode and a handheld electrode. (2)

WOOD MOISTURE METER WIP-22D

Wood Moisture Meter WIP-22D is designed for quick and non-damaging measurement of moisture contents in wood. The device measures the dielectric constant (SIC) of the material. The wood is penetrated by the electromagnetic field generated by the device. The Moisture Meter is equipped with knobs for setting the density and thickness of the wood. It can be used to measure wood planks 10mm to 60mm thick and of density within the range of 0.3 to 1.1 g/cm^3. The measuring range: 4% - 60% of moisture contents. (6)

WOOD MOISTURE METER WRD-50 "TERMITE"

Wood Moisture Meter WRD-50 is a state-of-the-art electronic device for measuring wood moisture contents within the range of 6% to 50%. **It is especially designed to withstand heavy duty conditions** (it is dust proof and shockproof). (8)

WOOD MOISTURE AND TEMPERATURE METER PWT-8D

The Meter PWT-8D with the Data Registration Unit URD is designed for stationary measurement of moisture contents and temperature of wood. The results can be printed using the URD. It can be used during the production of wood packaging materials e.g. **EUR type pallets**. The device provides means to fulfil the regulations concerning the documentation of heat processing of wood (temperature, time) and final moisture contents (ISMP 15, "International Standards for Phytosanitary Measure 15"). Measuring range: wood moisture contents 12% - 60%; temperature from -5 to 80°C. (27)

* numbers in circles indicate positions on the price list

UNIVERSAL MOISTURE METERS

UNIVERSAL MOISTURE METER WIM-90

The Universal Moisture Meter WIM-90 is an electronic device for measuring **air humidity and moisture contents in wood and concrete** without any tables and calculations. Such wide range of applications is possible due to a large number of electrodes that come with the instrument. The measuring ranges are: wood 6% to 100% of moisture contents; concrete 1% to 15% of moisture contents; air 30% to 90% RH. (33)

HYGROPEN®

The Hygropen can be used in wood and building industries. It is designed for measuring moisture contents in wood and building materials, air humidity and temperature. The measurement of wood moisture contents includes wood type and temperature compensation. Humidity and temperature are measured using state-of-the-art professional sensors. Specially designed LCD and the use of a microprocessor provide high accuracy and ease of use. The device is small and has an oblong, pen-like shape (160 x 27 x 15 mm).
(34)

ACCESSORIES

VENEER ELECTRODE

The electrode is designed to operate with Wood Moisture Meter WRD-100. The conductive rubber provides good contact with the veneer. (37)

HAMMER ELECTRODE EM-1

The electrode is designed to operate with the following devices: WRD-30, WRD-100, D-3, XD-30 i WIM-90.
(38)(39)

INERTIAL ELECTRODE EB-1

The electrode is designed for the WRD-100 Moisture Meter. With this electrode the needles can be inserted into the wood to the depth of up to 30 mm.
(40)

NEEDLES

1 - veneer, 2 - PPS-60 System, 3 and 5 - Electrode EM-1 and Moisture Meters HIT-1 and HIT-2, 4 - Electrode EM-1, 6 and 8 - Moisture Meters HIT-1, HIT-2 and EM-1, 7 - Moisture Meters WRD-30, XD-30 i D-3.

DATA REGISTRATION UNIT URD

The Data Registration Unit is designed for the following systems: PPS-60, PPS-60WT, PWT-8A, PWT-8D, PWT-9 and PWT-GIGA. (41)

REMOTE SYSTEM FOR DRYING CHAMBERS TYPE PPS-60

This device is used for permanent monitoring of moisture and temperature of wood in drying chambers. It measures **wood moisture (in three different places), air humidity and temperature**. All the electronic instruments are placed outside of the drying chamber, in ED2030 casing with protection level IP-65. There are two types of the System: PPS-60L - for one chamber; PPS-60R - for 2-5 chambers. (13) (14) (15)

REMOTE SYSTEM FOR DRYING CHAMBERS CONTROL PPS-60WT

The System measures the same parameters as PPS-60. Additionally it is equipped with temperature and humidity pre-set control knobs and provides stable conditions during the wood drying process; wood moisture can be monitored in 5 different points. Measuring range: wood moisture 8% to 60%; temperature 20°C to 100°C; air humidity 30% to 95% RH. (16)

TRANSDUCERS CARD KP

The circuit board contains 3 wood moisture contents transducers, 1 temperature transducer and 1 air humidity transducer; outputs 0-20 mA; power 15V DC; dimensions 150x220 mm; designed for measuring wood drying process parameters.
Options: casing, wires, needles. (17)

PAPER

DIGITAL MOISTURE METER FOR PAPER WIP-20A

Moisture Meter WIP-20A is an electronic device for measuring moisture contents in paper. It is mainly used by printers, paper factories and packaging manufacturers. The final reading is an average level of moisture in a layer of paper 50 mm thick. WIP-20A measures the dielectric constant (SIC) of paper. Measuring range: 2% to 12% of moisture contents. (18)

MOISTURE METER FOR WASTE PAPER WM-3

This device has been designed to rapidly determine the level of moisture in waste paper by measuring its resistance. It has been calibrated for normal composition of waste paper. In order to measure the level of moisture in waste paper it is sufficient to slide the electrode into pressed paper or to press the electrodes to the surface of the paper. Measuring range: 6% to 30% of moisture contents. (19)

MOISTURE METER FOR PAPER WCPT-100P

This device is useful for estimating the moisture contents in paper. After sliding the electrode between the stack of sheets the humidity of the air that is in equilibrium with the paper is measured.
(20)

AIR

MICROPROCESSOR MULTIFUNCTION THERMO-HYGROMETER WCM-1

Thermo-Hygrometer WCM-1 is an electronic microprocessor based device designed to measure **relative air humidity (%RH), temperature (°C), absolute humidity (g/m3) and dew point temperature (°C)**. It is also equipped with TP-1 Electrode which enables the user to obtain temperature readings for various surfaces (e.g. steel constructions). (23) (24)

HYGROMETER WCPT-100E/100C

Moisture Meter WCPT-100E is designed to measure air humidity and temperature. It is used in technologies that require specific humidity and temperature and also in museums, air conditioned places, storage warehouses etc. The device uses humidity and temperature sensors made in Austria. The WCPT-100C can additionally measure the temperature of fluids and surfaces. Measuring range: air temperature -5°C to 60°C; air humidity 20% to 95% RH. (21) (22)

HUMIDITY AND TEMPERATURE METER PWT-8A

PWT-8A is a stationary device measuring relative air humidity and temperature. The PWT-8A2 is additionally equipped with temperature and humidity relays. The air humidity and temperature thresholds can be set using the knobs on the side of the device. Measuring range: air temperature -5°C to 60°C; air humidity 20% to 95% RH. (25) (26)

HUMIDITY AND TEMPERATURE METER PWT-9

PWT-9 is a stationary microprocessor based device measuring relative air humidity and temperature. The results are presented on two LED displays. The device can be equipped with output relays. The air humidity and temperature thresholds can be set with the knobs on the front panel. A printer can be connected to the device and a printout of current values on preset time intervals can be done. Last 40 results are stored in the memory and can also be printed on demand. Measuring ranges: humidity 10% - 95% RH; temperature from -5 to 60°C. Software linearization of the characteristic provides the whole range accuracy of ±2% RH and ±1°C. (28)

HUMIDITY AND TEMPERATURE METER PWT-GIGA

PWT-GIGA is a stationary microprocessor based device measuring relative air humidity and temperature. The results are presented on a two-digit big (100 mm high) LED display, alternately humidity (2 sec.) and temperature (2 sec.). The device can be equipped with output relays. The air humidity and temperature thresholds can be set by the user. A printer can be connected to the device and a printout of current values on preset time intervals can be done. Last 40 results are stored in the memory and can also be printed on demand. Measuring ranges and accuracy is the same as for PWT-9.
(29)

BUILDING MATERIALS

MOISTURE METER FOR CONCRETE WIP-21B

Moisture Meter for Concrete WIP-21B is an electronic device designed to measure moisture contents in a concrete base before laying carpets, tiles, linoleum or varnishing with oil based paints. It measures the dielectric constant of the concrete base. The final result is the average moisture level in the upper layer of concrete up to 50 mm thick. Measuring range: 1.0% to 8% of moisture contents. (30)

BUILDING DAMPNESS INDICATOR

Building Dampness Indicator BDI is a miniature device for estimating moisture contents in building materials (i.e. wood, concrete, plaster, gypsum). **Using this device you can rate the materials as dry (green) or wet (red)**. It measures the resistance of the material. (31)

CARBIDE MOISTURE METER WK-1

Carbide Moisture Meter WK-1 is designed to measure moisture contents of solids, especially building materials like: sand, brick or concrete. It can also be used as moisture meter for fluids (e.g. oils). It is extremely useful in cases where the contamination (salinity) or thick reinforcement prohibit other electronic ways of measurement. The device measures the pressure of acetylene which comes from the chemical reaction of carbide and water contained in the sample. Measuring range: 0% - 10% of moisture contents. (32)

GRAIN AND TOBACCO

MOISTURE METER FOR GRAIN POJ-1

Moisture Meter for Grain POJ-1 is a microprocessor based, portable device for measuring moisture contents of 10 kinds of grain. It measures the resistance of the sample. The electrode is equipped with sharp blades which cut the grains in the sample chamber. A thermometer fitted in the electrode allows for quick temperature compensation. Measuring range: approx. 8% - 40% (depending on the kind of grain). (35)

MOISTURE METER FOR TOBACCO WWT-1

Moisture Meter WWT-1 is designed for quick, approximate measurement of moisture contents in tobacco. It can be used in storage rooms or collection points. The device measures the resistance of the material. The resistance characteristic has been adjusted for normal conditions and an average of most popular kinds of tobacco. Measuring range: 12% - 30% of moisture contents. (36)

TANEL Electronics also produces other technical electronic moisture meters designed to measure resistance, dielectric constant or equilibrium relative humidity.

DIGITAL WOOD MOISTURE METER WIP-20D

WIP-20D is an electronic instrument for measuring wood moisture contents within the range of 2% to 30%. It is widely used in wood industry, furniture industry, modeling and others, and is particularly useful for measuring moisture levels in finished products as the tactile electrodes leave no marks on the wood. The final reading provided by this device is the average moisture level in a layer of timber 50 mm thick. WIP-20D measures the dielectric constant (SIC). (7)

WOOD MOISTURE METER XD-30

Wood Moisture Meter WRD-30 is an affordable electronic device for measuring wood moisture contents within the range of 6% to 30%. It can be used to measure moisture contents in 11 different types of wood. The readings are displayed using LEDs. The only difference between Wood Moisture Meter WRD-30 and XD-30 is a higher resolution of the latter. (5)

WOOD MOISTURE METER HIT-1

Wood Moisture Meter HIT-1 is an electronic device for approximate measuring of moisture contents in wood within the range of 6% to 50%. The primary feature of HIT-1 is that the whole device is fitted in a hammer electrode. For more accurate results the use of correction tables and formulas from the users manual is required. (9)

WOOD MOISTURE METER "MICRO"

Wood Moisture Meter "MICRO" is a miniature electronic device for approximate measuring of moisture contents in wood within the range of 6% to 50%. For more accurate results the use of correction tables and formulas from the users manual is required. (10)

SAWDUST MOISTURE METER WTR-1

Sawdust Moisture Meter WTR-1 is a state-of-the-art electronic device for measuring moisture contents in sawdust, scobs, wood shavings, slivers and other finely crumbled wood waste. The Moisture Meter measures the resistance of a compressed sample of sawdust. The measurement is done in two stages: first - the sample is compressed always to the same pressure of approx. 0.2 MPa, second - the resistance of the sample is measured and converted into moisture contents. Measuring range: 8% to 50% of moisture contents. (11)

FUEL SAWDUST MOISTURE METER WTR-2

Sawdust Moisture Meter WTR-2 is a state-of-the-art electronic device for approximate measuring of moisture contents in sawdust, scobs, wood shavings, slivers and other finely crumbled wood waste used as fuel. The mechanical and operational design is the same as with Moisture Meter WTR-1. Measuring range: 35% to 70% of relative moisture contents (relative to the weight of wet material). (12)