

GUARANTEE

The manufacturer guarantees the correct functioning of the Moisture Meter for Paper WIP-20A under normal use for a period of 12 months.

Serial number

Production date

MOISTURE METER FOR PAPER WIP-20A

USERS MANUAL



1. Application

Moisture Meter for Paper WIP-20A is an electronic device for measuring moisture contents of paper. It measures the dielectric constant (SIC) of paper. The final reading is an average level of moisture in a layer of paper 50 mm thick.

2. Technical data

| | |
|-----------------------------|---------------------------|
| Range | 2 % - 12 % |
| Thickness of layer measured | approx. 50 mm |
| Display | LCD |
| Accuracy | ± 0.6 % |
| Resolution | 0.1 |
| Power | 9V, battery 6F22 |
| Battery life | approx. 5000 measurements |
| Low bat signal | yes |
| Size | |
| instrument | 165 * 80 * 33 mm |
| case | 270 * 180 * 55 mm |

3. Preparing the instrument for measurements

3.1 Measurements of wrapping paper $G=45 \text{ g/m}^2$ or other paper with similar gsm and composition.

To prepare the instrument for measurements:

- set the CALIBRATION/MEASUREMENT knob to CALIBRATION,
- hold the instrument in the air, turn it on with the ON/OFF button and use CALIBRATION knob to reset the displayed value to 0.0 (acceptable error margin is ± 0.1),

Important

To prevent faulty results in measurements the Producer recommends that in due time you check your meter readings with a dry oven test.

Limitations

This warranty becomes null and void if you fail to pack your WIP-20A in a manner consistent with the original product packaging and damage occurs during product shipment. This warranty does not cover: circumstance beyond our company's control; service required as the result of unauthorized modifications or service; misuse, abuse; failure to follow our company operating or maintenance instructions. Repair or replacement without charge is our company's only obligation under this warranty. Our company will not be responsible for any special, consequential or incidental damages resulting from the purchase, use, or improper functioning of this equipment regardless of the cause. Such damages for which our company's will not be responsible include, but are not limited to, loss of revenue or profit, downtime costs, loss of use of the equipment, cost of any substitute equipment, facilities of services, or claims of your customers for such damages.

7. Producer



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5. Changing the battery and storage

The device is equipped with a power level control circuit. When the power drops below acceptable level a sign "LO BAT" appears on the left side of the LCD. This indicates that the battery has expired and should be replaced with a new one. To replace the battery unscrew the screw on the back of the instrument and carefully remove the back panel. Store the device in a dry place.

6. Guarantee and Service

The Moisture Meter for Paper WIP-20A has a 12 months guarantee.

- all repairs during the guarantee period will be done within 10 days from the date of delivery,
- all other repairs will be done within 14 days from the date of delivery.

TANEL Electronic warrants the Moisture Meter for Paper WIP-20A to be free from malfunction and defects in both materials and workmanship for one year (12 months) from the date of purchase.

If the Moisture Meter WIP-20A does not function properly during the warranty period due to defects in either materials or workmanship, our company will, at its option, either repair or replace the instrument without charge, subject to the conditions and limitations stated herein. Such repair service will include any necessary adjustments and replacement part.

- set the CALIBRATION/MEASUREMENT knob to MEASUREMENT (a negative value should be displayed on the LCD).

3.2 Measurements of other types of paper

To prepare the instruments for measurements of other types of paper perform once the calibration procedure as described below:

- prepare a sample of the paper,
- find the moisture contents of the sample using the dry oven test, preferably for moisture contents within the range of 5%÷7%,
- set the knob to MEASUREMENT,
- press the ON/OFF button,
- conduct the measurement as described in chapter '4. Measurements' of this users manual,
- use the CALIBRATION knob to set the result displayed on the LCD to the result of the dry oven test,
- hold the instrument in the air and read the calibration value for this type of paper (e.g. -4.6),
- write the type of paper and it's calibration value into the calibration table,
- for subsequent measurements of this type of paper use the calibration value from the table i.e. before measurements hold the instrument in the air and set the appropriate calibration value.

