

# PORTABLE MOISTURE METER



- **Designed for paper and board makers**
- **Simple to use, accurate readings, excellent repeatability**
- **Wide moisture range**
- **Small size, light weight**
- **Graphic display / big numbers**
- **Wireless communications**
- **Data logging and analysis features**
- **Bottom skid for web and roll measurements**
- **Optional Power-User Skid for more difficult places**
- **Suits laboratory and field, QC and research**

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**VISILAB**  
SIGNAL TECHNOLOGIES

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## Main Features

- applications in pulp, paper and board industry, textiles, felts, filters, minerals, wood chips, sawdust, recycled fiber, waste paper, bio fuels
- suitable also for corrugated and soft materials
- simple to use but has useful features for advanced work
- surface moisture in thick samples, total moisture content in thin samples (abt. 150 microns penetration in paper products)
- wide moisture range starting from 0 %, up to about 70 %
- fully portable and stand-alone, an easy-to travel companion, no wire tangles
- fast response, selectable digital filtering, 5 points per sec sampling, low-level sampling at 75 Hz
- superior stability, based on proven technology of Visilab
- the price is very competitive and the payback time is usually short

## Data logging features

- operating distance: 0...7 mm or more, no contact required
- measuring area 10 mm in diameter allows for studies in small scale
- nonvolatile memory banks for holding up to 820 sample data series with time stamp and bank number
- each series can contain up to 500 samples
- memory banks can be downloaded to a PC with the time stamp and a label
- memory banks stay for years unless erased
- graphic trend display for recent history
- trend display can be saved to a new bank with a button press
- autotimer sampling (adjustable sampling interval and batch size)
- statistics of collected values
- low noise level (typically  $< 0.03$  % stddev at 5 % MEDIUM filter)
- a skid for measuring safely over moving webs and running rolls
- large calibration table library (100 tables) with rapid switching
- calibration with multiple points for linearization (2 - 10 points)
- display colours are user-adjustable for various operating modes: low intensity for energy saving, high intensity for good visibility in difficult conditions

## Interfaces and physical properties

- an integral display and a diaphragm keyboard
- large numeric display and a graphic display, trend curve and values
- colour hue is associated with crossing preset moisture levels, high or low (alarm feature)
- charge indicator LEDs
- battery-backed clock for time stamping
- dimensions 180x80x100 mm, weight 500 g
- IP67 enclosure for harsh environments
- an operating period of at least 3.5 to 4 hours before recharging the battery
- battery charger for 110 - 240 VAC mains is included
- wireless communication via 100 meter Bluetooth, the Bluetooth adapter for the PC included
- regular RS232 via cable at 115200 for PC's COM port
- the free **AK30** and **AK30Mini** programs are data acquisition software for trend display, data archiving, manipulation etc. **IRMA7Basic** and **IRMA7Mini** have more features. **Advanced** is an optional licensed program with plenty of features.
- meter configuration can be saved, meter starts the next session like that
- calibration tables can be saved after modification, user decides if necessary

## Ambient conditions

- operating +5 ... +50 C
- overheating protection turns the meter to LowPower
- optical head is inside a box giving full protection
- fully temperature compensated
- IP67 case
- optical window can be cleaned if water condensation or dust
- service interval of 12000 hours
- battery is replaced every 5 to 7 years

## Optional accessories

- -PUS Power-User Skid for more difficult places, with an air purge and a wide skid protecting both the meter and the running web

## Your nearest dealer:

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