

AK30 - 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 with trend curve / big numbers
- Wireless communications
- Good data logging and analysis features
- Recipes for fast setup for measuring
- Flash calibration in field conditions
- Wide bottom skid for all web and roll measurements
- Laboratory and field, QC and research
- A very economical price



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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 with fine particles, packing papers, liners
- suitable also for corrugated and soft materials, simple to use but useful features for advanced work
- surface moisture in thick samples, total moisture content in thin samples (abt. 150 microns penetration in paper products)
- accuracy 0.25 %, repeatability 0.1 % or better
- wide moisture range starting from 0 %, up to about 70 % or even more
- 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 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 original time stamp and a selectable text label, affecting directly the resulting filename too
- memory banks remain 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), start with either the + -key or a separate button
- statistics of collected values
- Statistics can be calculated either from one series or of a preset number of series. This allows for averaging of two sides of board web or of several points along the production line
- 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
- five quick switching recipes for starting new measurements at regular QC positions. Calibration table and a label can be selected for each recipe
- Flash calibration to generate a workable table in all conditions
- automatic zeroing of moisture meter if temporary differences are of interest
- automatic conversion of calibration for dry weight percent moisture or DRYNESS
- marker key for marking a part of data series acquired

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 700 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** has more features. **Advanced** is an optional licensed program with plenty of features.
- meter configuration can be saved, meter starts the next session like that. Temporary changes are not saved.
- calibration tables can be saved after modification, user decides if necessary
- a bottom skid PUSWIDE with air purge

Ambient conditions

- operating +5 ... +50 C
- 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 12 000 hours
- battery is replaced every 5 to 7 years

Optional accessories

- **-CAR** a special carrying case, water tight, shock-proof
- A dual-battery option **-DBAT** for 7 h operation

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