AK30 - PORTABLE MOISTURE METER







Designed for pulp, paper and corrugated board plus all fibre materials. This is a unique instrument, a paper-maker's multimeter. AK30 is our most popular product

Advantages

- Measures profiles of rotating and static reels, running webs, pulp bales and sample stacks
- Extremely wide moisture range
- Simple to use, accurate readings, excellent repeatability and stability
- Graphic display with trend curve / big numbers
- Wireless data transfer to laptop (Windows 7 - 11 +)
- A small compact instrument, contains everything and is easy to travel with its protective case
- Has a wide bottom skid for all web and reel measurements plus soft materials for optimum results
- Uses infrared light at very low power levels
- Small size, light weight, ergonomic to handle
- Good data logging and analysis features
- Recipes for regular measuring at same positions

Benefits

- Quick measurements, readings and reports on site. Profiles are saved into the meter
- Immediate results and rapid reactions to profile issues. Verification of repair success follows
- Routine daily measurements are handy and reliable
- Measurements are saved when needed and documented when reporting
- Problems are solved fast and downtime is minimized in serious cases
- A very economical price, pays for itself quickly

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VISILAB
SIGNAL TECHNOLOGIES

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Main Specifications

- 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 72 Hz
- superior stability, based on proven technology of Visilab

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 for holding up to 810 profiles with time stamp and bank number
- each profile can contain up to 500 points
- profiles can be downloaded to a PC with the original time stamp and a editable text label, affecting directly the resulting filename too
- profiles remain for years, unless erased
- graphic trend display for recent history
- trend display can be saved to a new profile 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 / profile
- Statistics can be calculated either from one profile or of a preset number of profiles. 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)
- 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
- 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
- A plastic focusing aid facilitating in placing the measuring spot accurately
- a sheet calibrator can be shipped with each meter at no extra cost
- a **reel number** feature allows the reel number to be carried further in the data flow to the PC
- a **web temperature module** is available as an option, data is interleaved with moisture data and both profiles are transferred to the programs which can extract automatically

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 7 hours before recharging the battery.
- battery charger for 110 - 240 VAC mains is included of 9 Volt 1.5 A
- wireless communication via 100 meter Bluetooth, the Bluetooth adapter for the PC included
- USB for PC's USB port
- the free **AK30, ATOM** and **AK30Mini** programs are data acquisition software for trend display, data archiving, manipulation etc. **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
- **-CAR** a water tight carrying case, shock-proof

Ambient conditions

- operating +5 ...+45 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

Your nearest contact:

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