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 spots

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
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 820 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
- 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
- optical window can be cleaned if water condensation or dust
- service interval of 12 000 hours
- battery is replaced every 5 to 7 years
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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

Optional accessories

- wireless communication via 100 meter Bluetooth, the Bluetooth adapter for the PC included
- regular RS232 via cable at 115200 for PC’s COM port with USB converter included
- 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

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