ON-LINE MOISTURE METER
AK50E



Advantages

- Measures moisture in rotating and static reels, running webs, pulp bales and sample stacks
- Tracks moisture level fast
- Problems are solved fast and downtime is minimized in serious cases
- Extremely wide moisture range
- A very small spot size of 12 mm at 250 mm distance for small scale variations
- Simple to use, accurate readings, excellent repeatability and stability

Benefits

- For paper, board, pulp and all fibre materials
- Quick measurements, readings and reports on site
- High measuring speed 400 Hz, transient capture is possible
- Measurements are archived and reporting is possible even while measuring.
- Old data can easily be retrieved
- A very economical price, pays for itself quickly
- Scanner use is possible
- DCS interfacing of analog signals and RS232 / USB for the PC program
- Good data logging and analysis features
- Price is economical

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Main Features of AK50

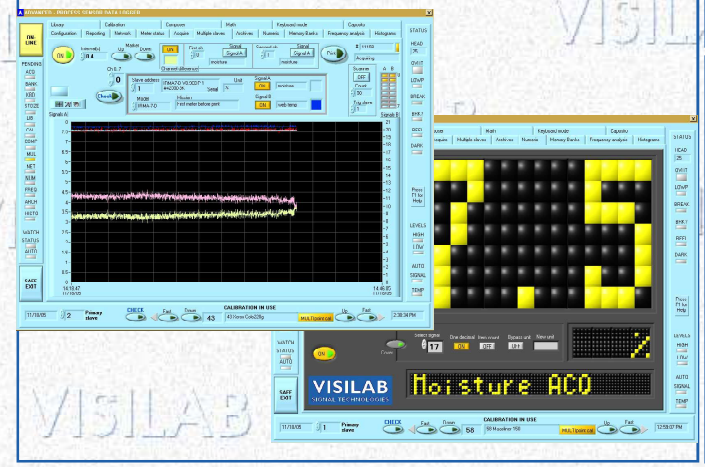
- applications in pulp, paper and board industry, textiles, felts, filters, minerals, sawdust, recycled fiber, waste paper
- for single-point or scanner use in on-line measurements, QC and troubleshooting
- simple to use but has useful features for advanced work
- surface moisture in thick samples, total moisture content in thin samples (abt. 150 microns penetration)
- accuracy typically +/-0.25 %, repeatability 0.1 % for papers
- wide moisture range starting from 0 %, up to about 70 %
- fast response, selectable digital filtering, 400 points per sec sampling and updating of data
- superior stability, based on latest stable infrared technology of Visilab
- adjustable digital filter for matching the required response time and process noise content
- available in two enclosure options: Either bigger one with a small spot or a smaller one with a wide spot

Data logging features

- operating distance: about 250 +/-15 mm or wider
- measuring spot 12 mm in diameter
- autotimer sampling (adjustable sampling interval and batch size), also an external hardwired trigger
- extremely low noise level (typically < 0.02 % stddev at 5 % MEDIUM filter)
- high stability, no need for recalibration, annual checking is still recommended against a glass ensealed standard
- large calibration table library (100 tables) with rapid switching
- calibration with multiple points for linearization (2 - 10 points)
- high immunity to external infrared radiation, web speed, %RH changes, external lights, angular placement etc.
- when meter configuration is saved, meter starts the next session configured as such
- fast enough for studies of rapid phenomena and frequency analysis (400 Hz)

Interfaces and physical properties

- dimensions 275x275x120 mm
- sturdy anodized Aluminum enclosure for harsh environments, sensitive parts are IP67 protected
- analog outputs for moisture and web temperature, voltage range settable and scalable, one 4-20 mA
- regular RS232 via cable at 9600/115200 for PC's COM port, isolated RS232-USB converter included
- wireless Bluetooth at the power supply unit with a 100 m range (optional)
- the free **Advanced** package license, data acquisition software for trend display, data archiving, manipulation etc.
- long service interval 175 000 h
- very low power consumption, no water cooling, air purge is sufficient in difficult conditions



Options

- infrared thermometer with its signal available on all interfaces
- an economy version **AK50E** with reduced accessories and options
- self-consistent, power supply included, ready to start
- two pilot laser pointers for adjusting the working distance properly when mounting
- the Vortec cooler for more difficult conditions

Ambient conditions

- operating -10 ... +60 C, needs air purge if over +35 C
- fully temperature compensated

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