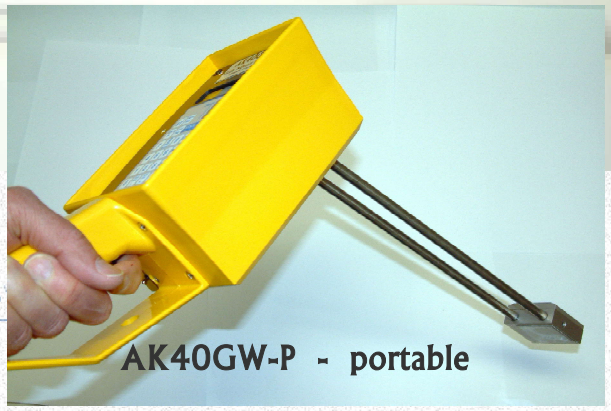
AK40GW ON-LINE MOISTURE METER





Advantages in the Process

- Measures moisture in running webs, pulp bales and sample stacks
- Downtime is minimized
- Production Quality is under control and deviations are quickly sorted out
- Specialized in reaching difficult targets
- A very small spot size of 10 mm at 15 mm distance for small scale variations

Benefits

- For paper, board, pulp and all fibre materials
- Quick measurements, readings and reports on site
- Simple to use, accurate readings, excellent repeatability and stability
- Tracks the moisture level fast
- Extremely wide moisture range
- Good data logging and analysis features
- Measures moisture in running webs, pulp bales and sample stacks
- Graphic display with trend curve / big numbers
- Immediate results and rapid reactions to moisture issues. Verification of repair success follows
- Measurements are archived and reporting is possible even while measuring.
- Data can be saved into meter for later retrieval (800 measurements max)
- Old data can easily be retrieved
- Scanner use is possible, keyboard and display in both versions
- DCS interfacing of analog signals (5 V / 4-20 mA)
- Wireless Bluetooth data transfer or a cable (RS232/USB)
- Ultrastable technology applied, this is our flagship product
- Price is really economical

2026-32

VISILAB
SIGNAL TECHNOLOGIES

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Main Features

- applications in pulp, paper and boards, packaging papers, textiles, felts, filters, minerals, recycled fiber, waste paper, liners, suitable also for corrugated and soft materials, glue weight, coatings and other water-based chemicals
- targeted for easy positions, 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)
- accuracy 0.25 %, repeatability 0.1 % depending on the target
- wide moisture range starting from 0 %, up to about 70 %
- fast response, selectable digital filtering with 3 options, one of them adjustable and very slow, 5 points per sec sampling minimum, raw sampling at 72 Hz
- superior stability, based on proven ultrastable technology of Visilab
- the price is exceptionally competitive and the payback time is very short

Data logging features

- operating distance: 12...22 mm, no contact required
- measuring area 10 mm in diameter
- DCS analog interfaces are updated at 5 Hz minimum
- nonvolatile memory for holding up to 800 sample data series with time stamp and bank number
- each series can contain up to 500 samples
- series can be downloaded to a PC with a time stamp and a label
- series stay in memory for years until erased
- graphic trend display for recent history
- trend display can be saved as a new series 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)
- large calibration table library (100 tables) with rapid switching
- calibration with multiple points for linearization (2 - 10 points)
- calibration table change either via PC software or manually at the keyboard
- five quick switching recipes for changing to other calibrations when paper grade changes. Calibration table and a label can be preselected for each recipe
- Flash calibration to generate a workable table in all conditions for papers
- zeroing of moisture reading if differences are of interest
- automatic conversion of calibration for **dry weight**, **percent** moisture or **DRYNESS** as selected by user
- reel number settable via keyboard, carried forward with data in that session

Interfaces and physical properties

- analog outputs 0..2 V (or 0..5 V) for moisture and 0..5 V for web temperature, 4-20 mA for moisture
- wireless communication via 100 meter Bluetooth, the Bluetooth adapter for the PC included
- regular RS232 via cable at 9600 (max. 40 m) or 115200 (max. 5 m) for PC's COM port for AK40GW. For AK40GWP 115200 (max. 5 m) USB / Bluetooth
- an integral display and a diaphragm keyboard
- large numeric display and a graphic display, trend curve and values
- display colour hue is associated with crossing preset moisture levels, high or low (alarm feature)
- operating voltage 24 V 3 W
- battery-backed clock for time stamping
- dimensions: 350x120x110 mm, weight 300 g
- IP67 enclosure for harsh environments
- AK40GW: power supply unit for 110/240 VAC/24 VDC is included. It has connectors for DCS interfaces
  AK40GWP: Power supply 240 VAC/9 VDC
- the free **AK30** program package is data acquisition software for trend display, data archiving, manipulation etc. It contains also **ATOM**, **AK30Mini** and French versions.
- meter can be configured in field and saved, meter starts the next session like that
- calibration tables can be saved after modification, user decides if necessary
- **two delivery options: AK40GW on-line and AK40GW-P portable. FUnctionally they are similar but accessories differ a little**

Ambient conditions

- operating + 5 ... + 60 C with air purge
- overheating protection turns the meter to LowPower
- fully temperature compensated
- IP67 case, purge air to both case and window
- optical window can be cleaned if water condensation or dust, air purge used for keeping it clean
- service interval of 200 000 hours
- Li Ion battery in AK40GWP is replaced every 7-10 years

Optional accessories

- glass-ensealed moisture standards
- an infrared thermometer for web temperature, range 0... + 100 C, mounted on the side pointing towards the web
- **Advanced** is a licensed program with plenty of features.

Your nearest contact:

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