

ON-LINE AND PORTABLE MOISTURE METER



A NEW PRODUCT SERIES



- **Designed for paper and board makers and converters**
- **Simple to use, accurate readings, excellent repeatability**
- **Wide moisture range**
- **Able to measure glue weight / coat weight for water-based adhesives and coatings**
- **Comes as two models: On-line and portable**
- **Graphic display with trend curve / big numbers**
- **Wireless communications**
- **Good data logging and analysis features**
- **Recipes for fast setup for measuring**
- **Laboratory and field, QC and research**
- **Fixed measurements and scanning**
- **A very economical price - very long service interval**



AK40GW-R



AK40GW-L

AK40GW-P



2017-006

VISILAB
SIGNAL TECHNOLOGIES

FrontColour™ are registered trademarks and IRMA-7™ and Visilab™ are trademarks of Visilab.
All rights reserved. Copyright © by Visilab Signal Technologies.

Main Features

- applications in paper and board industry, paper converting, textiles, felts, filters, minerals, recycled fiber, waste paper, packing papers, liners. Many water-based pigments, coatings and glues can be measured
- simple to use but has useful practical features for advanced work
- wide moisture range starting from 0 %, up to about 70 % or even more, measures glue mixture in g/m² by measuring water content
- On-line model: Quickly fixed to a new position, a single cable to connect
- Portable model: 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
- new ultra-stable technology used in infrared optics
- the price is very competitive and the payback time is usually short

Data logging features

- operating distance: 15 + 7 / -2 mm
- measuring area 10 mm in diameter allows for studies in small scale, cross profiles of running webs
- nonvolatile memory banks for holding up to 800 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), manual triggering 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)
- 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 for boards and papers
- zeroing of moisture meter reading if 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
- precalibration for customer mixtures possible

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 180x110x350 mm, weight 700 g
- IP67 enclosure for harsh environments
- an operating period of at least 9 hours before recharging the battery (portable model)
- battery charger for 110 - 240 VAC mains is included (portable)
- power supply unit included for the on-line model
- 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** and **Profiler** are optional licensed programs
- calibration tables can be saved after modification
- side fixing bracket for tripod and support (portable)
- fixing bracket for proper fixing (on-line model)

Ambient conditions

- operating + 5 ... + 50 C
- optical head is at the end of metal support bars
- fully temperature compensated
- IP67 case
- optical window can be cleaned if water condensation or dust
- service interval of 150 000 hours
- battery is replaced every 5 to 7 years

Optional accessories

- optical support bar lengths between 50 mm and 300 mm available, specify at time of order
- angle of support bar lengths can be predetermined at order, typically 60 degrees or zero degrees
- inquire for all options available

Your nearest contact: (check the web site www.visilab.fi to see your local representative)

Manufacturer
Visilab Signal Technologies Oy
Sepäntie 4, FI-07230, Monninkylä, Finland
Tel. + 358-45-6354885
www.visilab.fi
e-mail: info@visilab.fi