

PROCESS SENSORS

Visilab manufactures and delivers the following sensor program. The applications are in paper, board, pulp, corrugated and many kinds of fibre products, soil, wood chips etc.

Moisture sensors

Model	Type	Moisture range	Depth	BW range	Working distance	Operation	Notes
AK40	On-line	0..70+ %	Surface	> 10 g/m ²	0..7 mm	Infrared	Economy model, Bluetooth
AK50	On-line	0..70+ %	Surface	> 10 g/m ²	200 +/-8 mm	Infrared	Top model
MK30LP	On-line	3..25+ %	Deep	> 40 g/m ²	0 mm, contact	Microwave	Soft papers, various sensing heads exist for specific applications, very low-cost model, depth to 25 mm
AK30	Portable	0..70+ %	Surface	> 10 g/m ²	0..7 mm	Infrared	Universal tool, Bluetooth
MK30	Portable	0..70+ %	Deep	> 10 g/m ²	0 mm, contact	Microwave	All papers and pulp, various sensing heads exist for specific applications, depth to 30 mm, thick materials, Bluetooth

Colour sensors

Model	Type	Value range	Operation	Working distance	Spot size	Notes
FrontColour 5	On-line	0..130 TAPPIB	TAPPI Brightness	200 +/-4 mm	35 mm diam.	Rate 10 Hz, geometry is 0° /45° CIE 1964 10° observer, TAPPI R457
FrontColour 10	On-line	CIE variables, full range	Colour	50 +/-2 mm	8.75 mm diam.	2 Hz rate, full set of CIE variables plus more. 0/45, geometry is 0° /45° CIE 1964 10° observer, D65, A, C, D50, D55 or D75 illuminants

Surface means to 150 microns, deep to 25 / 30 mm in thick material. Infrared meters can measure all kinds of papers and even some black papers. Microwave meters can measure all papers excluding those which contain Titanium oxide, metal particles or soot.



For full specifications and available accessories and options, refer to the website www.visilab.fi
There you will find our full catalog and numerous brochures and all technical documents.

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Options available

Model

- AK40 Various enclosures according to request. Other accessories according to installation
- AK50 Working distance / tolerance at time of order. For extreme conditions, special enclosures for protection according to request. Other accessories according to installation
- MK30LP Various sensing heads are available. The flat low profile sensor is the default. The same head as in MK30 Regular is available too in an AISI 316 box
- MK30
- **Regular** is the top notch meter
 - **Regular -W** is for extremely high moisture content of thick materials
 - **Compact** is a smaller/size version targeted for lower moisture levels (3 - 25 %)
 - **Sample holder** for cylindrical and tubular material for laboratory QC testing
- Various sensing heads available in addition.

Other useful accessories for a successful project are available, like **LAN232** and **LAN485** for connecting several sensors to a data acquisition PC. Wireless data links are often delivered based on Bluetooth 100 m if this feature is not already built-in. On-line sensors are suitable for scanners as well.