## 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 / Spot size /Operation	Notes /   r +
AK40	On-line	070+%	Surface	> 10 g/m2	07 mm / 10 mm / Infrared	Economy model, Bluetooth + RS232
AK50	On-line	070+ %	Surface	> 10 g/m2	250 +/-8 mm / 10 mm / Infrared	Top model, RS232, analogs, Profibus DP, opt. Bluetooth/ USB
MK30LP	On-line	325+ %	Deep	>40 g/m2	0 mm, contact / 25x45 mm / Microwave	Soft papers, various sensing heads exist for specific applications, very low-cost model, depth to 25 mm RS232, USB
MK30LP-CUBE	On-line	370+ %	Deep	>40 g/m2	0 mm, contact / 40 mm / Microwave	All papers and pulp, various sensing heads exist for specific applications, depth to 30 mm, thick and thin materials. RS232, USB, analogs for water layer of up to 8 000 g/m2
AK30 MK30R	Portable Portable	070 + % 070 + %	Surface Deep	> 10 g/m2 > 40 g/m2	07 mm / 10 mm / Infrared 0 mm, contact / 40 mm / Microwave	Universal tool, Bluetooth, RS232, USB All papers and pulp, various sensing heads exist for specific applications, depth to 30 mm, thick materials, Bluetooth, reel profiles static & running, distance sensing for profile, for moisture up to 8 000 g/m2

## Colour sensors

Model	Туре	Value range	Operation	Working distance / Spot size	Notes
FrontColour 10	On-line	CIE variables, full ra	nge 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 75 illuminants
Disperie Carrier				\ /1r+   / r)	RS232, USB, analogs, opt. Bluetooth

**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. Special chemicals may be troublesome. Microwave meters can measure all papers excluding those which contain significant amounts of **Titanium oxide**, **metal particles or soothe**.



For full specifications and available accessories and options, refer to the website <a href="www.visilab.fi">www.visilab.fi</a> There you will find our full catalog and numerous brochures and all technical documents.

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## Options available for various models

Model

**AK50** 

**AK30** - moisture standards of special paper enclosed between glasses

Various enclosures according to request. Other accessories according to installation. AK40

- moisture standards of special paper enclosed between glasses

Working distance / tolerance at time of order. For extreme conditions, special enclosures for protection according to request. Other accessories according to installation

- mmoisture standards of special paper enclosed between glasses

Various sensing heads are available. The flat low profile sensor is the default. MK30LP

- moisture standards of polymer

MK30LP-CUBE Various sensing heads are available. The big high-sensitivity cavity is the default. The head is in an AISI 316 box.

- moisture standards of polymer

- Version -PF for paper form manual measurements. The separate sensing head allows for getting into tight places MK30R

- Sample holder for cylindrical and tubular material for laboratory QC testing

- moisture standards of polymer

- Version -RM for paper and pulp measurements. The separate flat sensing head at the end of a stick makes on-line measurements possible of running webs

and reels

FrontColour 10 Bluetooth, reflectance standard and colour tiles with NIST traceable data, wavelength calibrator

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.

Various carrying cases are available for all products for safe operation at industrial conditions or wile transportation.



