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
AK40	On-line	0..70+ %	Surface	> 10 g/m2	0..7 mm / 10 mm / Infrared	Economy model, Bluetooth + RS232
AK50	On-line	0..70+ %	Surface	> 10 g/m2	250 +/-8 mm / 10 mm / Infrared	Top model, RS232, analogs, Profibus DP, opt. Bluetooth/ USB
MK30LP	On-line	3..100 %	5 mm	> 40 g/m2	0 mm, contact / 10 mm / Microwave	All papers, low-cost model, RS232, RS485, USB
MK30LP-CUBE	On-line	3..70+ %	30 mm	> 40 g/m2	0 mm, contact / 40 mm / Microwave	All papers and pulp, various sensing heads exist for specific applications, thick and thin material, RS232, USB, analogs for water layer of up to 8 000 g/m2
AK30	Portable	0..70+ %	Surface	> 10 g/m2	0..7 mm / 10 mm / Infrared	Universal tool, Bluetooth, RS232,USB
MK30R	Portable	0..70+ %	30 mm	> 40 g/m2	0 mm, contact / 40 mm / Microwave	All papers and pulp, various sensing heads exist for specific applications, Bluetooth,reel profiles static & running, distance sensing for profiles, for moisture up to 8 000 g/m2

Colour sensors

Model	Type	Value range	Operation	Working distance / Spot size	Notes
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 75 illuminants RS232, USB, analogs, opt. Bluetooth

Surface means to 150 microns, ***deep*** to 5 ... 30 mm in thick material depending on model. 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*** .

VISILAB SIGNAL TECHNOLOGIES

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 for various models

Model

AK30 - moisture standards of special paper enclosed between glasses. Usually custom made

AK40 Various enclosures according to request. Other accessories according to installation.
- moisture standards of special paper enclosed between glasses

AK50 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

MK30LP Various interfacing options are available.
- moisture standards of polymer

MK30LP-CUBE The head is in an AISI 316 box.
- moisture standards of polymer

MK30R
- Version **-PX** for all paper measurements. The separate small sensing head allows for getting into tight places
- Version **-PF** for paper form measurements. The separate small sensing head allows for getting into tight places
- **Sample holder** for cylindrical and tubular material for laboratory QC testing
- moisture standards of polymer

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

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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.

VISILAB SIGNAL TECHNOLOGIES

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