

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/m ² | 0..7 mm / 10 mm / Infrared | Economy model, Bluetooth + RS232 |
| AK50 | On-line | 0..70+ % | Surface | > 10 g/m ² | 250 +/-8 mm / 10 mm / Infrared | Top model, RS232, analogs, Profibus DP, opt. Bluetooth/USB |
| MK30LP | On-line | 3..25+ % | Deep | > 40 g/m ² | 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 | 3..70+ % | Deep | > 40 g/m ² | 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 moisture up to 8 000 g/m ² |
| AK30 | Portable | 0..70+ % | Surface | > 10 g/m ² | 0..7 mm / 10 mm / Infrared | Universal tool, Bluetooth, RS232, USB |
| MK30R | Portable | 0..70+ % | Deep | > 40 g/m ² | 0 mm, contact / 40 mm / Microwave | 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/m ² |

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 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 *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

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- AK30** - moisture standards of special paper between glasses
- AK40** Various enclosures according to request. Other accessories according to installation.
- moisture standards of special paper 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
- moisture standards of special paper between glasses
- MK30LP** Various sensing heads are available. The flat low profile sensor is the default.
- 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
- MK30R**
- The top notch portable meter
- **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

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 while transportation.