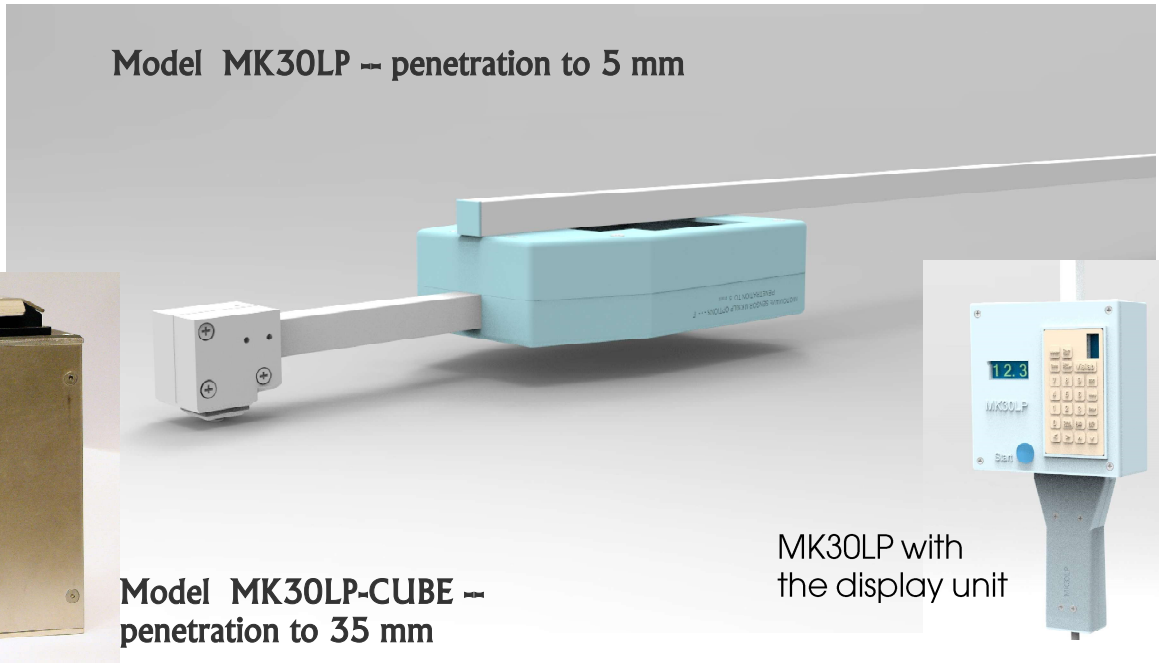
MK30LP - ON-LINE MOISTURE METER FOR THICK MATERIALS



Designed for thick materials, like pulp, paper and corrugated board plus all fibre materials. This is a unique instrument, a paper-maker's multimeter as one can work with sheets, reels and stacks. Visilab has developed a new proprietary dynamic analysis algorithm for fast operation and immediate response to fast changes in level

Advantages

- Measures moisture of rotating and static reels, running webs, pulp bales and sample stacks, felts
- Extremely wide moisture range
- Excels with difficult materials like black papers and corrugated
- Suitable for static samples, stacks and running production lines
- Handheld use for troubleshooting the PM or temporary fix point, sheet and stack measurements
- Simple to use, accurate readings, excellent repeatability and stability
- Other materials like wood, sawdust, minerals, soil, textiles
- Operates with safe UHF radio waves
- Delivery options (3), long cables possible:
  - cable to DCS analog outputs and power feed
  - cable and power supply -PS with connections to laptop (RS232/USB) and DCS
  - MK30R-DISP unit making it virtually identical to MK30R (refer to MK30R data sheet) with wireless communications

Benefits

- Quick measurements, pinpoint accuracy of fault detection
- Immediate results and rapid reactions to profile issues. Verification of repair success follows
- Routine daily measurements are handy and reliable
- Measurements are saved when needed and documented when reporting
- Problems are solved fast and downtime is minimized in serious cases
- A really economical price
- Small sensing head gives new opportunities for measuring in tight places

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Main Specifications

- applications in pulp, paper and board, textiles, felts, filters, recycled fiber, packaging papers etc.
- suitable also for **corrugated** and **soft materials**
- moisture of thick and thin samples, moisture content in % (abt. **5 mm penetration in common fibre materials**)
- extremely wide moisture range starting from about 2 %
- easy to install, easy to move to another spot, manual or fixed use
- fast response, 14 to 35 points per sec sampling depending on configuration
- superior stability, based on radio frequency technologies (UHF)
- the price is very low
- **-CARMK** a special carrying case, water tight, shock-proof

Data logging features

- operating distance: **contact required**
- measuring area 10 mm in diameter, depth to 5 mm
- low noise level even at high moistures
- water content in % total but DRY-% and DRYNESS can be selected at runtime
- calibration with multiple points for linearization (2 - 10 points)
- **Note:** Does not operate for materials containing significant amounts of **soothe**, **metal particles, metal films** or **Titanium oxide** pigment
- Now a new version available: **MK30LP-CUBE** for on-line measurement of felts, textiles etc. It is capable of measuring extremely high moisture levels. It is mounted into a AISI box IP67 touching the running web. Its penetration is 35 mm with a diameter of 40 mm. For smaller weight requirements, the box can be built from ABS

Interfaces and physical properties

- 4-20 mA and one analog 2 Volt output
- RS232/485 cable communication RS232-USB adapter for the PC included
- dimensions for the sensing head 40x30x40 mm, weight 0.6 kg
- IP67 enclosure for harsh environments
- the free **MK30LP** program is data acquisition software for trend display, data archiving, manipulation etc. It is a full-featured program
- meter configuration can be saved, meter starts the next session like that. Temporary changes are not saved.

Options

- **-STDMK** a polymer plate for verifying the calibration in long-term use (any stable plastic will do)
- **LAN485** a communications bridge for acquiring data from up to 15 MK30LP units. Can be used for other data communications via RS485. LAN485 is able to supply 24 Volt power to each sensor
- Delivery options:

  - cable for **DCS** and power feed (default)
  - cable and power supply **-PS** for DCS analog signals, communications and power feed
  - **MK30R-DISP** display unit making MK30LP virtually identical to **MK30R** but with a penetration of 5mm and the sensings head is at a the end of along cable. The MK30R is capable of wireless communications and also for storing data series
  - a low-weight Aluminum stick 2 m
  - the **MK30LP-CUBE** can be provided with the same options above (no stick), same data logging features

- a FAST version will be soon available with a much higher data throughput

Ambient conditions

- operating +10 ... +50 C
- fully temperature compensated
- IP67 case
- service interval of 200 000 hours minimum

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