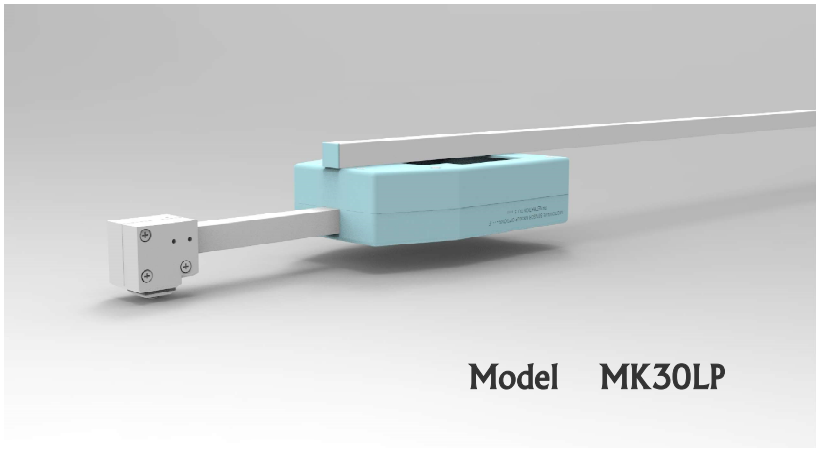
Model MK30LP (Low Profile)



Model MK30LP

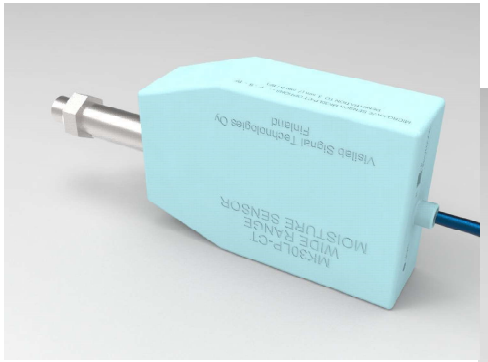
On-line Moisture Meter for Paper and Board Mills and for Other Fiber Products - a Wide Range of Applications

New meters for measuring deep into matter with microwaves

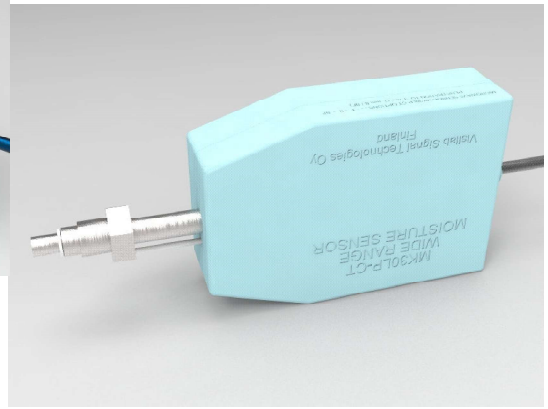
NEW PRODUCTS

APPLICATIONS IN:

- ➤ Pulp, packaging papers, corrugated and liners, printing papers
- ➤ Various other materials like felts, textiles, pulp
- ➤ Difficult materials, like black papers, are now easy
- ➤ Measure moisture from webs plus various production lines
- ➤ A simple-to use meter for QC
- ➤ A versatile instrument with all features built-in
- ➤ Pilot machines and research



Model MK30LP-CTB penetration to 7 mm, spot diam. 10 mm



Model MK30LP-CT penetration to 3 mm, spot diam. 4 mm

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What would you expect to have in your on-line moisture meter for thick materials?

A. Good reliability

B. Simplicity of use

C. Excellent stability

D. Suitable interfaces for user and data transfer

E. Good usability in requiring field conditions

F. A sufficient penetration depth

G. A wide moisture range

H. Versatility in applications

I. Low profile for fitting to tight places

Look at what Visilab has to offer in our **MK30LP** on-line meter

A. Good reliability - It is built to last. All wearing parts are carefully designed.

B. Ease of use - Mount the sensor to touch lightly the web. Connect the meter to power and start measuring. Could it be simpler? Use either the PC program MK30LP or MK30LPSimple or connect the analog outputs. Measure continuously and save the trends in the PC.

C. Good stability - It is in a unique class in stability due to its highly advanced design. We can guarantee an excellent long-term stability figure

D. Interfaces - It connects to the world with the following:

- RS232 (RS485 optionally) to the PC with a full-featured data acquisition software **MK30LP.** This software has a great number of highly useful features for regular quality control, troubleshooting and special research purposes. The program follows each meter without cost.

E. Usability - Using MK30LP is simple and straightforward. The sturdy flat box is IP67 rated meaning splash water proof. It has rounded edges to reduce wear and to allow to slide smoothly over soft materials without leaving any streaks. **Touching is required in all cases.** Calibration tables and configuration data are saved to a nonvolatile memory and all data is saved to the PC.

F. Penetration - MK30LP will penetrate to about **5 mm** in most fibre materials. The measuring area is about 10 mm in diameter. The variants have differing penetrations. Refer to their details.

G. Moisture range - The moisture reading is based on total percent. The range is extremely wide. The dry end will start from about 2 % and goes to fibres fully saturated with water and beyond

H. Moisture accuracy - The moisture reading accuracy is slightly dependent on the moisture level. The calibration performed will affect and so do the measuring conditions. Strong layering of water is not supposed to exist. With moisture 2 - 40 % the accuracy is +/-0.3 % or better. At 40 - 99 % accuracy is +/-0.4 % or better. Repeatability numbers are usually much better than these. MK30LP will average the moisture of the material which it is able to "see" within the semispherical volume of diameter 10 mm.

G. Product variants - MK30LP-CT and CTB are examples of variants we can offer with special features, see further in this document

There is more than you expected..

MK30LP has a measuring speed of about 15 - 45 Hz which offers a good quality signal. A fast version will be available soon, also an add-on display module with keypad

Calibration - It is straightforward both in field and laboratory conditions

with usual papers. The internal library can contain up to 100 tables which can be manipulated extensively in software. The linearity is good above 8 %. One will need only two to ten samples with known moistures to do the calibration. Two samples are the minimum and usually sufficient for a limited range of moisture.

What else does it have? Small things like:

High immunity to ambient conditions

It is of really low profile as its thickness is about 15 mm. It can be fitted to narrow spaces in pilot machines and research instruments

The PC program has features for acquiring moisture data for archiving, reporting and display

A very low internal noise level in moisture signal even at high moistures

Wide moisture range (2..>99 % total)

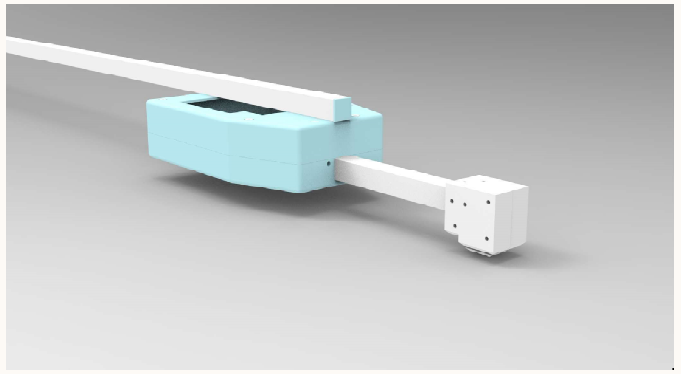
A competitive price, a quick ROI

A measuring area size of about 10 mm in diameter allowing for small scale studies

All PC software are Windows 11+/10/8/7 compatible and for future versions too, free upgrades from our web site for easy support

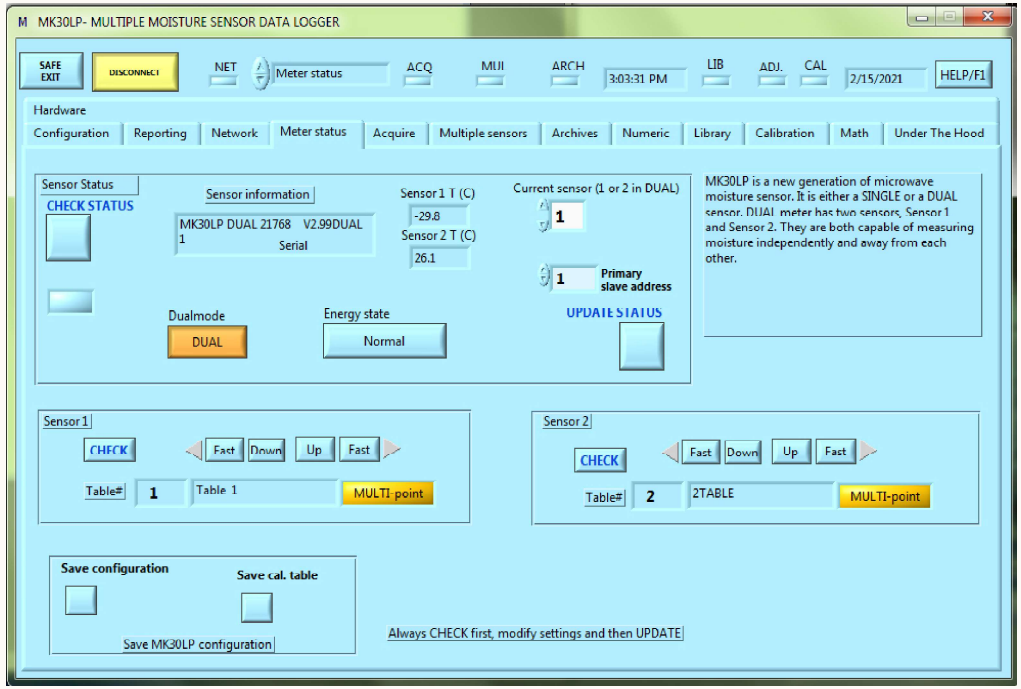
The MK30LP-CUBE
On-line sensor for running felts, papers, pulp etc. Penetration 35 mm, sensing diameter 40 mm. The moisture range is extremely wide





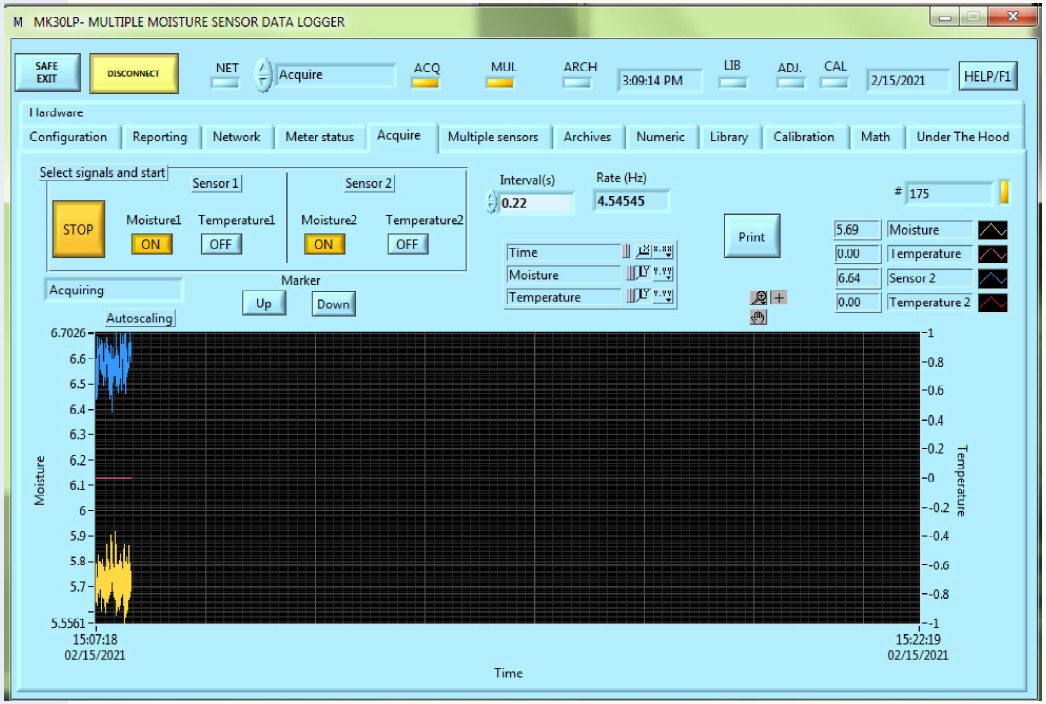
The MK30LP for measuring running felts, papers, textiles, pulp etc. Sensing area 10 mm in diameter, penetration 5 mm. It has a very wide moisture range

In the following are some images from the MK30LP program



The Meter status page for checking/updating the meter's main features

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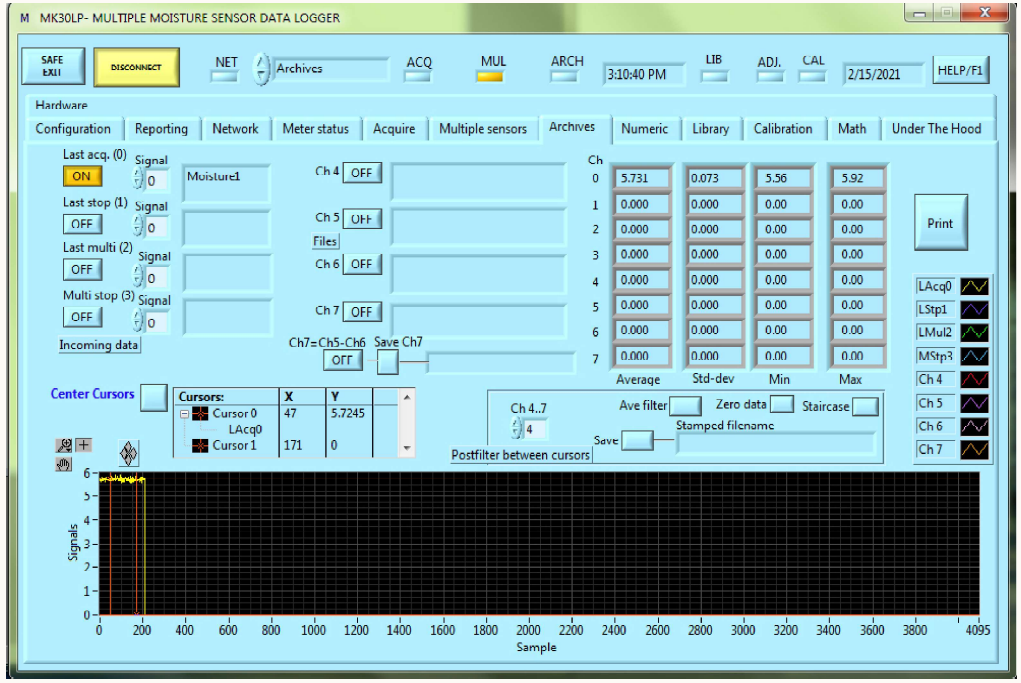
The Acquire page, data retrieved from the primary slave

Visilab has developed a new proprietary dynamic analysis algorithm for fast operation and immediate response to fast changes in level

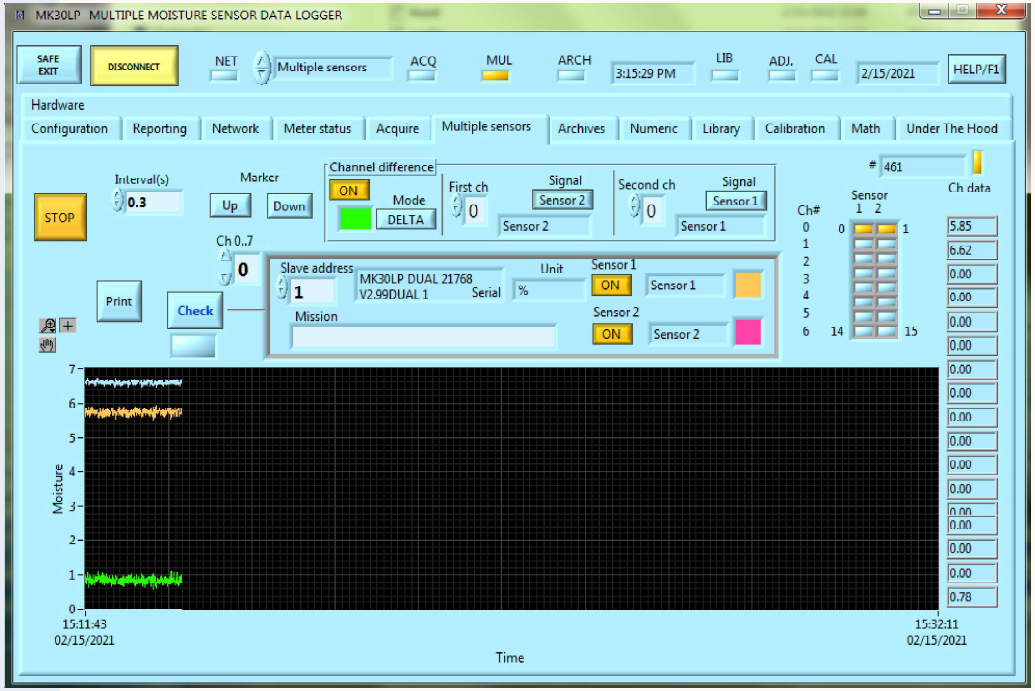
MK30LP has a 4-20 mA and 2 Volt analog signals sending out the moisture reading

The versions MK30LP-CT and -CTB are designed for measuring highest moisture contents of pulp, other fibre masses and food etc. The -CT penetrates 3 mm and -CTB 7 mm deep. They both can maintain a measuring speed of 10 to 30 Hz. A display module is available to them too

MK30LP-CT and CTB are able to measure water in oil even to low concentrations, like 0.5%



The Archives page



The Multiple sensors page with a sample signal from one meter. Change the signal curve colour by pressing the coloured square near the signal name.

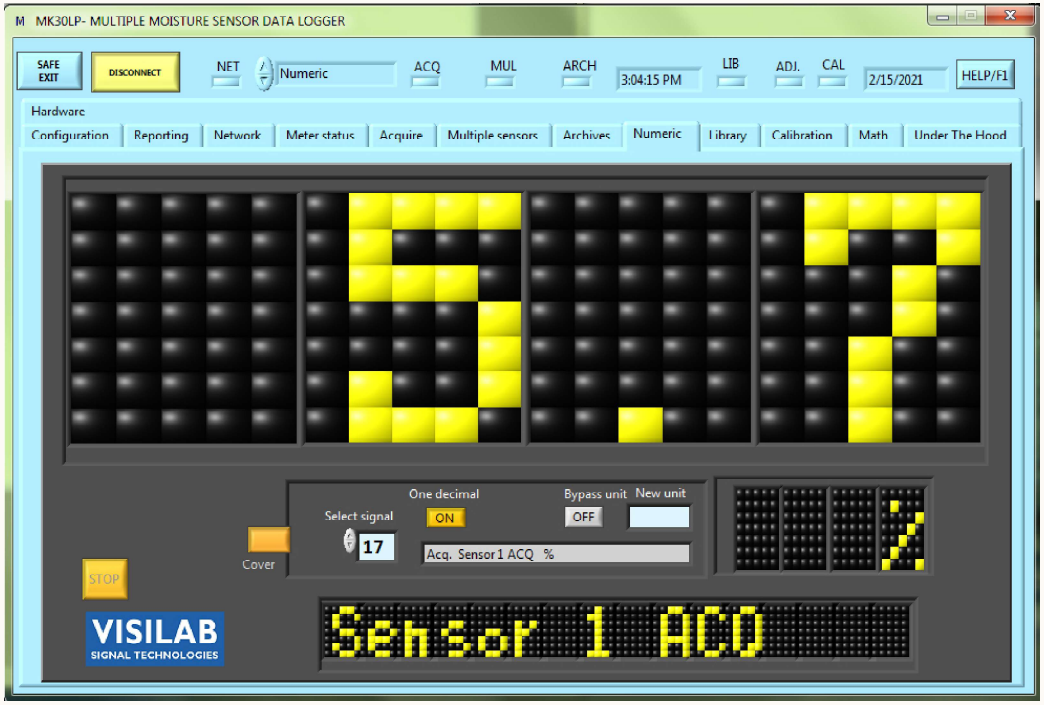




Some of the case variants available



MK30LP with the display unit



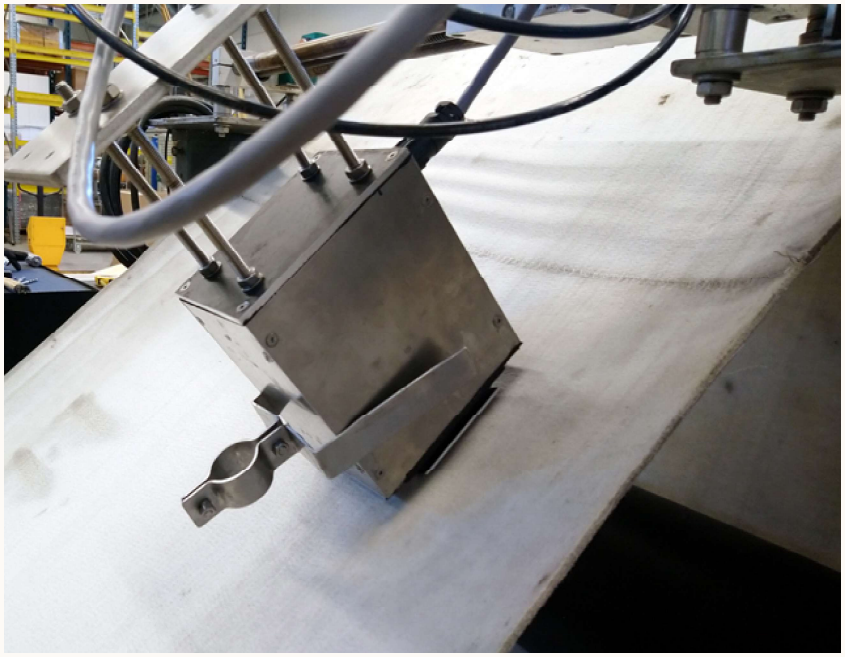
The Numeric Display page for showing the selected data channel

There are plenty of features more in the MK30LP program. The MK30LPSimple contains just a fraction of them to make it easy to get only the trend data from the sensors.

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Are these specifications sufficient for you?

Now, what is keeping you from asking for more data and an offer?



The MK30LP-CUBE has the MK30R cavity for measuring a running wet felt.

Note: MK30LP is **not** able to measure materials which contain significant amounts of **soothe, metal particles or Titanium oxide**. The readings may become erroneous.

MK30LP is the best low-profile on-line moisture meter for thick materials there is:

- ➤ Goes to 5 mm deep into matter (depends on variant)
- ➤ An extremely wide moisture range
- ➤ Simplest to use, practical features
- ➤ Absolutely lowest cost, small and most compact
- ➤ Contains a large number of useful features for practical work in QC and research
- ➤ Easy-to use support software
- ➤ A large number of field applications
- ➤ Versatility in applications

Moisture meters made by Visilab Signal Technologies have been sold to a large variety of applications since 1994: From paper and machine research to troubleshooting and regular quality control and rough field use. The applications range from SC, board and newspaper to nonwoven, fabrics, note papers, special papers, sawdust and wood chips and printing. They have been used frequently in research studies made by universities and research institutions in addition. Also on-line coat weight applications have been completed. We also offer a colour meter for continuous operation **FrontColour 10**.

Find latest news and other up-to date material on our web pages:

www.visilab.fi

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