

IRMA-7 Model A

Portable Moisture Meter for Paper and Board Mills and for Other Fiber Products



You will get more than you expect from a small, smart meter

APPLICATIONS:

- ▶ Laboratory and field work
- ▶ A true "gloves-on" product with large keys and a big clear display
- ▶ Measure moisture from rolls, sheets and slow webs
- ▶ Pilot machines, research and paper grade studies
- ▶ Special papers, with cotton and other constituents
- ▶ Various fiber materials, felts, textiles, minerals, wood chips, sawdust

What would you expect to have in your portable surface moisture meter?

- A. Good reliability
- B. Ease of use
- C. Good stability
- D. Small size
- E. Suitable interfaces for user and data transfer
- F. Good usability in requiring field conditions

Look at what Visilab has to offer in our IRMA-7 model A portable meter:

Standard Features:

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

margin. The service interval is 12 000 hours ✓

B. Ease of use - Turn on the meter and start measuring. Could it be simpler? ✓

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

D. Small size - It is the smallest meter available. Its dimensions are 85x120x300 mm. It includes all electronics. No control boxes are required. You can use the meter in quite new applications ✓

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

➤ Keyboard and display with large keys and big clear LCD to get full control of the meter. There are two indicator lamps for HIGH and LOW level crossing ✓

➤ Serial port to PC (RS232 9600 bauds) with a full-featured data acquisition software IRMA7Basic, IRMA7Mini or Advanced. The serial port can be configured also as RS485 (a local area network LAN supporting many meters). The software has a great number of highly useful features for regular quality control, troubleshooting and special research purposes. ✓

➤ Isolated logic output, sends out logic indication of crossing the preset HIGH and LOW levels. Also an isolated input line for triggering sampling is available ✓

➤ **EX Interface**, this is used for connecting to external sensors by any vendor for logging data by using a separate cable. Examples are %RH, roll hardness, IR thermometer, pressure etc. ✓

These are all standard in every meter and can be used simultaneously. The programs **IRMA7Basic** and **IRMA7Mini** follow each meter without cost ✓

F. Usability - It has large keys with good mechanical sense, tone and light signal feedback. The display is large with good contrast and with all necessary information visible. Using IRMA-7-A is simple and straightforward. The sturdy box is IP67 rated meaning water tightness. If it gets wet while using, wipe out the water from the small optical surfaces and continue with the measurements. None of the competing products can do that. All data, calibration libraries and meter configuration data are always saved in a nonvolatile memory. ✓

There is more than you expected..

Speed of measurement - IRMA-7-A has a measuring

speed of 5 Hz which is perfect for manual use. ✓

Memory banks - Memory banks (4 kilosamples or a set of 4 x 1 kilosamples) are built into the meter for saving data (sample intervals from 0.2 s to 32000 s). The internal autotimer takes the samples and it can be triggered by a key, software or hardware to start sampling. This feature allows regular sampling either in roll measurements or in field tasks. Crude frequency analysis of web moisture signals to diagnose and identify slow oscillations ✓

Calibration - It is straightforward both in field and laboratory conditions. The internal library can contain up to 100 tables which can be manipulated extensively in software. The linearity is excellent above 8%. ✓

An optional IR web thermometer - Its data can be retrieved to any interface. It used the EX interface ✓

What else does it have? Small things like:

High immunity to external infrared radiation ✓

High immunity to external water vapor ✓

The IRMA7Basic program has features for acquiring moisture data for archiving, reporting and display ✓

- An extremely low noise level in signal ✓
- Wide moisture range (0...>70% total) ✓
- A digital filter with three passbands for web noise cancellation or averaging ✓
- A very low power consumption ✓
- An optional bearing foot available with two or four wheels for measuring rotating rolls and corrugated boards ✓
- Battery operation for at least 8 hours before recharging is required ✓
- A highly competitive price, quick return of investment ✓
- A small spot size allowing for exceptional profile studies ✓
- The sleep mode allows for automatically turning to Low Power mode after one hour of use ✓
- The **IRMA7Mini** program with greatly minimized features is available to all customers. It has a 640x480 pixel display suitable for small laptops ✓

The licensed **Advanced** program with greatly extended analysis and postoperation features is available to all customers at a low-cost one-time fee with free updates for lifetime ✓

All software are now Windows Vista compatible ✓

A wireless communications option using Bluetooth ✓

A four-wheeler bearing foot



Memory banks for collecting and archiving data can be downloaded to IRMA7Basic

Calibration and archives tasks in IRMA7Basic

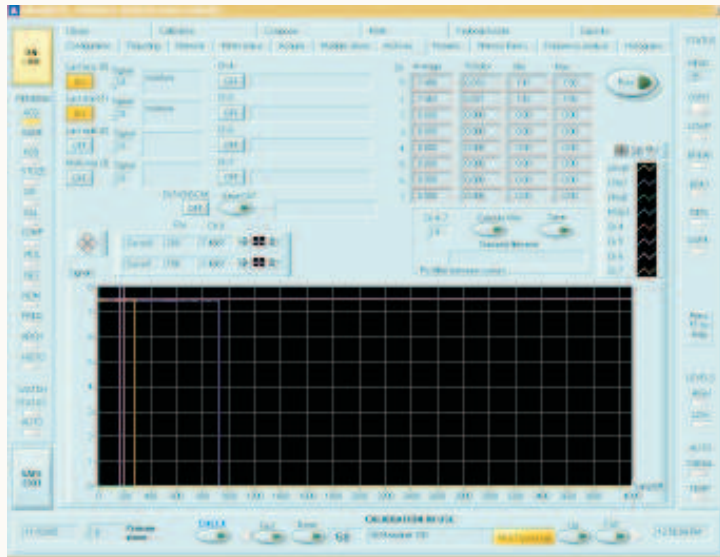
4 Memory bank task in IRMA7Mini

Are these specifications sufficient for you?

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

IRMA-7-A is the best portable moisture meter in the medium-sized class:

- ▶ Simplest to use
- ▶ Lowest cost
- ▶ Smallest and most compact, very small spot
- ▶ Contains a large number of useful features
- ▶ An easy to use support software
- ▶ A large number of field applications



Archives task in **Advanced** program. It has file retrieval, incoming signals, piecewise filtering of data, statistics, channel difference calculation etc., all on the same page at your fingertips.



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IRMA-7 model A moisture meters have been sold to a large variety of applications: 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. IRMA-7-A has been used frequently in research studies made by universities and research institutions.

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

www.visilab.fi

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