

# PROCESS MOISTURE METER



**NEW VERSION**

- **Designed for paper and board makers**
- **Simple to use, accurate readings, excellent repeatability**
- **Wide moisture range**
- **Small size, light weight**
- **DCS interfaces: Profibus DP, serial, two analogs**
- **Data logging and analysis features**
- **Suits laboratory and field, QC and research**
- **High speed allows measuring of sheet cutters etc.**
- **Single-point or scanner use**

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**VISILAB**  
SIGNAL TECHNOLOGIES

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## Main Features

- applications in pulp, paper and board industry, textiles, felts, filters, minerals, wood chips, sawdust, recycled fiber, waste paper, bio fuels
- for single-point or scanner use in on-line measurements, QC and troubleshooting
- simple to use but has useful features for advanced work
- surface moisture in thick samples, total moisture content in thin samples (abt. 150 microns penetration in paper products)
- wide moisture range starting from 0 %, up to about 70 %
- infrared thermometer with signal available on all interfaces
- self-consistent, power supply included, ready to start
- fast response, selectable digital filtering, 400 points per sec sampling and updating of data
- superior stability, based on proven infrared technology of Visilab
- the price is very competitive and the payback time is usually short

## Data logging features

- operating distance: about 180...400 mm or more
- measuring area 10 mm in diameter allows for studies in small scale
- memory bank for holding up to 4096 sample data points
- memory bank can be downloaded to a PC
- autotimer sampling (adjustable sampling interval and batch size), also an external hardwired trigger
- extremely low noise level (typically < 0.02 % stddev at 5 % MEDIUM filter)
- a unique BURST mode for piecewise products, like small batches on a conveyor or a sheet process
- large calibration table library (100 tables) with rapid switching
- calibration with multiple points for linearization (2 - 10 points)
- high immunity to external infrared radiation, web speed, %RH changes, external lights, angular placement etc.
- long service interval 175 000 h
- very low power consumption, no water cooling, air purge is sufficient in difficult conditions
- special versions available for most requiring applications, like charcoal or extremely humid conditions (100 %RH and 70 C) or for extra long distances up to 700 mm

## Interfaces and physical properties

- dimensions 180x85x125 mm, weight 2.4 kg
- sturdy IP67 enclosure for harsh environments
- Profibus DP at maximum 12 Mbauds
- analog outputs for moisture and web temperature, voltage range settable and scalable
- regular RS232 via cable at 9600/38400/115200 for PC's COM port
- the free **IRMA7Basic** and **IRMA7Mini** programs are data acquisition software for trend display, data archiving, manipulation etc. **Advanced** program with plenty of features belongs to the package
- meter configuration is saved, meter starts the next session like that

## Ambient conditions

- operating -10 ... +60 C, needs air purge if over +35 C
- overheating protection turns the meter to LowPower
- optical head is inside a box giving full protection
- fully temperature compensated
- IP67 case
- optical window can be cleaned if water condensation or dust, air purge can take care of this too

## Optional accessories

- a Bluetooth connection with up to 100 m link is available
- a pressure regulator, moisture standards

## Your nearest dealer:

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