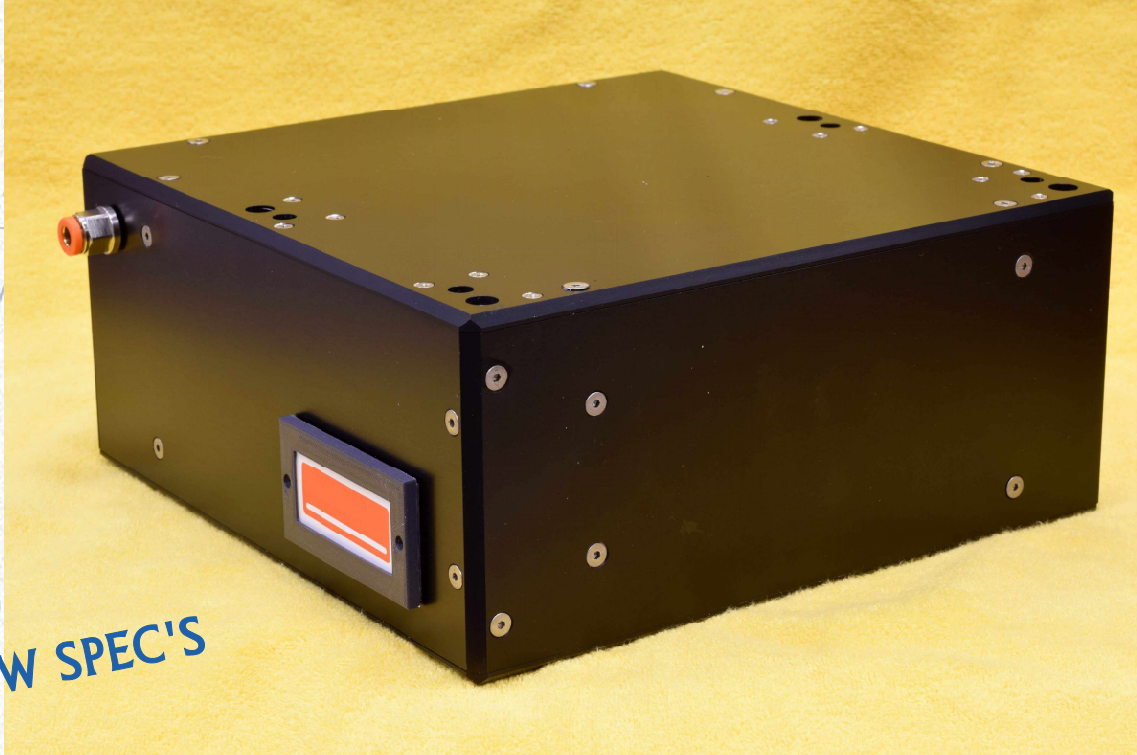


ON-LINE MOISTURE METER AK50



NEW SPEC'S

- Designed for paper and board makers
- Simple to use, accurate readings, excellent repeatability
- Wide moisture range
- Extremely small spot size 10 mm in diameter
- Small size, light weight
- DCS interfaces: serial RS232, analog outputs
- Data logging and analysis features
- Suits laboratory and field, QC and research
- Single-point or scanner use
- Based on Visilab's latest ultrastable technology
- A more protected version is available for most requiring positions

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Main Features of AK50

- applications in pulp, paper and board industry, textiles, felts, filters, minerals, sawdust, recycled fiber, waste paper
- 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)
- accuracy 0.25 %, repeatability 0.1 % or better
- 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, 70 points per sec sampling and updating of data
- superior stability, based on latest ultrastable infrared technology of Visilab
- available in two enclosure options: Either simply protected or with a an added protective nose, a Vortec cooler is a standard in both

Data logging features

- operating distance: about 250 +/-15 mm
- measuring spot 12 mm in diameter
- autotimer sampling (adjustable sampling interval and batch size), also an external hardwired trigger
- memory bank for holding up to 4096 sample data points, can be downloaded to a PC
- extremely low noise level (typically < 0.02 % stddev at 5 % MEDIUM filter)
- ultra-high stability, no need for recalibration
- 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.
- meter configuration is saved, meter starts the next session like that
- fast enough for studies of rapid phenomena and frequency analysis.
- IR thermometer range typically 0... + 150 C

Interfaces and physical properties

- dimensions 275x160x120 mm without the Vortec tube, weight 4.8 kg
- sturdy painted Aluminum enclosure for harsh environments, sensitive parts are IP67 protected
- analog outputs for moisture and web temperature, voltage range settable and scalable
- regular RS232 via cable at 9600/115200 for PC's COM port
- wireless Bluetooth at the power supply unit with a 100 m range (optional)
- Profibus DP at maximum 12 Mbauds (optional)
- the free **Advanced** and **IRMA7Basic** programs are data acquisition software for trend display, data archiving, manipulation etc. **Profiler** program is for scanner use
- long service interval 175 000 h
- very low power consumption, no water cooling, air purge is sufficient in difficult conditions

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
- the Vortec cooler will push out the air through the bottom opening. Both enclosure options work without a glass window to allow full working of the IR thermometer. Dust and condensation will not accumulate over any windows.

Please check our catalog for more details and options

Your nearest contact:

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