

INCLUDING

- PresScan™ (120–240V 50–60 Hz)
- Host PresScan™, Windows-based software for presentation of data from the built-in database
- USB/RS232 connecting cables
- Universal battery charger
- Calibration tools
- Carrying case for measuring head, battery charger and cables
- User and maintenance manuals
- Certificate from the instrument builder

MEASUREMENT

Range max	3.000 g H ₂ O/m ²
Resolution	1 g H ₂ O

INSTRUMENT

Measuring method	Microwave frequency resonance
Measuring area	100 °–150 mm
Field Penetration	Approx 75–100 mm (depending on material)
Measurement rate	up to 1.500 sample/s
Accuracy	12 bit
Memory	32 Mbyte (128 Mbyte on request)
Dialogue languages	5 on board
Rechargeable battery	Lithium Oxide
Operating Temperature	0°–85°C (Will not detect moisture in frozen material)
Serial Comm. Port	USB (up to 920 kbit/sec), RS 232 (up to 115 kbit/sec)

RESULTS

Measurement values	g H ₂ O/m ² °C (Mean of surface temperature during measure)
Statistics	mean value

OPTIONS

Windows 98 or later versions

Dimensions

305 x 275 x 110 mm
(case) 520 x 435 x 230 mm

Net Weight

2,6 kg

Weight with accessories

9,6 kg

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CRISTINI FELTRI
GC
Reliable Innovation™



PresScan™ MKIV

The new microwave meter to analyze
the moisture in press fabrics



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PresScan™

Diagnostic instruments without compromise

In the year 2000, Cristini Group took an important strategic decision: utilising its thirty year long experience with paper machine service, to develop its proprietary line of diagnostic instruments, in conjunction with prestigious Universities and research centers of Excellence. The target was to outperform the limits of the traditional tools used to service pulp and paper machines, using innovative principles, state-of-the-art electronics, at the most competitive cost. The results of this project are two product lines: **PresScan™** and **FiberScan™**. **Developed by service Experts, for service Engineers.**

Savings trough process optimisation

The paper machines are complex mechanical mechanisms, and paper machine clothing can be seen as a "recorder" of most of the papermaking problems. Moisture streaks, fabric cleaning, press vibrations, optimization and efficiency of the cleaning chemicals used, are only a few of the analysis possible trough an appropriate monitoring of the paper machine clothing permitted by **PresScan™**. The regularity of the press dewatering impacts heavily the performance of the paper machine, as it greatly affects the energy consumption in the dryer section. **PresScan™** is a powerful tool to evaluate the press section efficiency. **Few hours of machine down time avoided because of appropriate machine clothing monitoring, are enough to pay back the cost of a PresScan™.**

Three good reasons to invest in PresScan™:

- **Helps the reduction of machine unplanned shutdowns**
- **Better evaluation of the chemicals performance and their consumption**
- **Instrument with the best ratio quality to price on the market**

PresScan™ MKIV

PresScan™ MKIV is a portable moisture meter for recording, analysing, reporting and storage of data on press fabrics and web performance in the press section. The System includes a moisture measuring head, software and a power supply. Designed to be rugged in any operating environment, it is fully portable and battery-operated. The great storage capacity and operating autonomy enables the instrument to be used for days as a stand-alone unit for data acquisition and storage. During measurement, the moisture profile is shown in real time on the display on board the measuring head, in alternative to the standard bar indicator.

Profiles can be easily seen and compared on the instrument display. Once stored, measurements can be easily transferred to a PC for analysis and reports. **PresScan™ is able to record moisture not only in press fabrics, but also in paper webs.**

Ergonomy matter

When we go to the drawing board, we always have the operator safety in mind. Designing the new **PresScan™** series, we had 2 safety targets: maximum ergonomy and minimal weight. The result is a moisture meter very easy to handle in all situations, with the possibility to fold out, doubling its dimensions, to reach the most difficult positions found on the press section. **PresScan™** is also very light to handle. **These features reduce the stress to the service operator, when accessing difficult positions on the paper machine.**



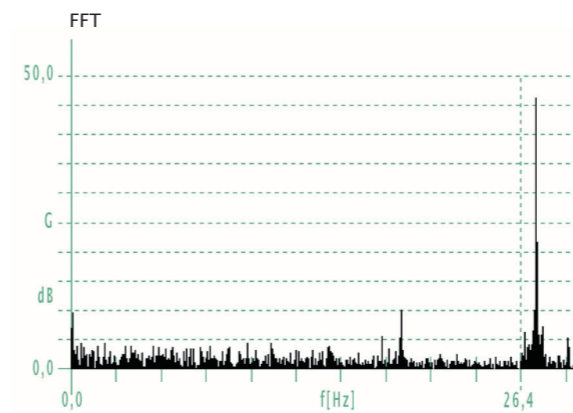
Reliability matter

PresScan™ is based on an innovative planar microwave active resonator. The advanced sensor is designed to drastically reduce the sensitivity to the surface water and temperature in the press fabrics, typical of the standard sensors. In this way the moisture reading is more reliable, getting precise report of the real water content in a press fabric. The supplied **Host™** software is provided with a sophisticated multi-points, "spline" curve function. This addition permits to build extremely accurate calibration curves, when compared to the traditional two-points calibration curve of the standard moisture meters. **Low consumption and battery capacity assure a great working autonomy.**

Speed matter

The new instrument architecture has been developed to obtain maximum operating flexibility. **PresScan™** is the fastest moisture meter on the market, able to sample up to 1500 moisture data per second. The high sampling speed permits to obtain an outstanding resolution, when conducting FFT analysis and/or evaluating press vibration trough moisture analysis. This feature makes **PresScan™** the ideal instrument for tests on high speed paper or pilot machines. **PresScan™** can be entirely controlled by a PC when connected through a USB data bus, performing a communication link up to 920kb/sec.

Optiwave™ FFT software troubleshoots vibrations and periodical marking on the paper machine clothing.



Advanced software facilitates data collection, analysis and reporting

PresScan™ is delivered with a diagnostic software (**Host PresScan™**), which acts as a powerful remote data management tool. Measurements can be sorted by position, type of felt, time frame, or any other chosen parameter. Curves and data can be accurately examined and compared on the PC. Data and graphs can be transferred in standard Excel format to other software for further processing. **The instrument firmware can be fast & easily upgraded via internet, to have the unit always updated at the latest version.**

Two unique service packages: PresScan™ zero downtime replacement.

PresScan™, as all Cristini diagnostic instruments, comes equipped with an exclusive service package: the instrument can be freely substituted with an equivalent, during repairing times. **PresScan™** down time is then only reduced to the delivery of a spare instrument.



Our instruments are available in over 30 countries, for immediate substitution. **Can your instrument supplier match this?**

PresScan™ SAI (service all included) **PresScan™ SAI** is an all-inclusive service package, under the payment of an annual fee. The service includes all repairing time, material, including spare parts.

All of these features are contained in the instrument with the industry's lowest investment cost.

Do you require dewatering and energy optimization in your Forming Section?

FiberScan™ MKII is the world's first microwave drainage meter. Equipped with FFT features, **FiberScan™** helps to evaluate the drainage for each dewatering elements, the vacuum, turbulence and the usage and efficiency of chemicals. It is easy to handle and operate. For more info please go to www.cristini.com, or send a mail to fiberscan@cristini.it



The **PresScan™** heavy-duty transportation case. Built to military standards.

