

2D LAB FORMATION SENSOR

PAPER & BOARD FORMATION SENSOR

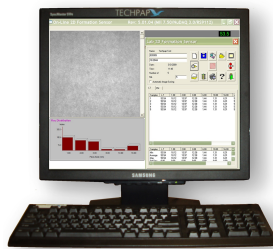


The Formation Sensor from Techpap is the state-of-the-art solution to replace traditional evaluation of formation of papers and boards, done visually by skilled analysts, a non-quantitative and old-fashioned subjective method.

The user friendly software for operation of the Formation Sensor controls the automatic generation of digital look-through images, which are analyzed by a powerful algorithm providing instantaneous objective numeric test results.

The Formation Sensor is available in laboratory and on-line versions, which share the same measuring hardware and software, giving so the exact same results, enabling so the dreamed common language to link smoothly, clearly and objectively Q.C. and R&D.

The basis weight range is very large, from 5 g/m² up to 600 g/m² for tissue, non woven, printing & writing, testliner and virgin board, even dyed, and up to 1000 g/m² for certain grades of white paper.



The measuring algorithm which interpretes the image and quantifies the formation index was developed by CTP* and tested by many papermakers before validation. The treatment process is by far the best available thanks to CTP and its over vast experience in paper and board look-through analysis, started back in 1980 when the Laser Formation Sensor was succesfully introduced worldwide.

* Centre Technique du Papier, Grenoble, France


The Device

The device is built in a rugged housing which encloses an integrated powerful stroboscope, light regulation board, reflection mirror, sheet support, IP digital camera, power supply and interconnection ports.

The Formatin Sensor automatically regulates stroboscope luminosity to compensate grammage and colour differences, ensuring objective formation analysis of the backlit sample. Stroboscope bulb is long lasting with average life up 10 years.

Techpap can deliver two types of sheet supports:

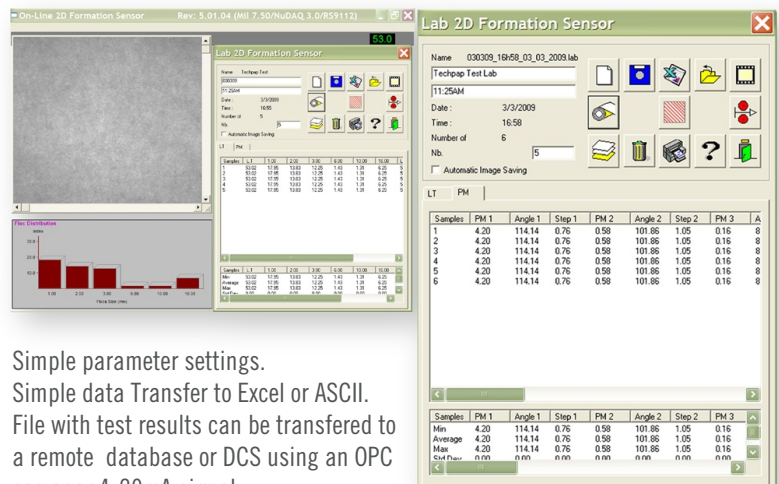
- A support with milk glass for fine papers to 50 g/m²
- Normal clear glass for heavier grades

 A push button control is conveniently placed in the front allowing the operator to start a series of analysis with automatic incrementation of test number.

Optional automatic feeder system allows the operator to test long cross directional profile samples in a simple and constant manner.

Friendly User Interface

The Formation Software runs under Windows OS in a single window which contains all controls and displays all test results, including statistics.



Samples	PM 1	Angle 1	Step 1	PM 2	Angle 2	Step 2	PM 3	A
1	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
2	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
3	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
4	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
5	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
6	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8

Samples	PM 1	Angle 1	Step 1	PM 2	Angle 2	Step 2	PM 3	A
Min	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
Average	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
Max	4.20	114.14	0.76	0.58	101.86	1.05	0.16	8
Std Dev	n.n.n.	n.n.n.	n.n.n.	n.n.n.	n.n.n.	n.n.n.	n.n.n.	n.n.n.

Simple parameter settings.

Simple data Transfer to Excel or ASCII.

File with test results can be transferred to a remote database or DCS using an OPC server or 4-20mA signal.



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