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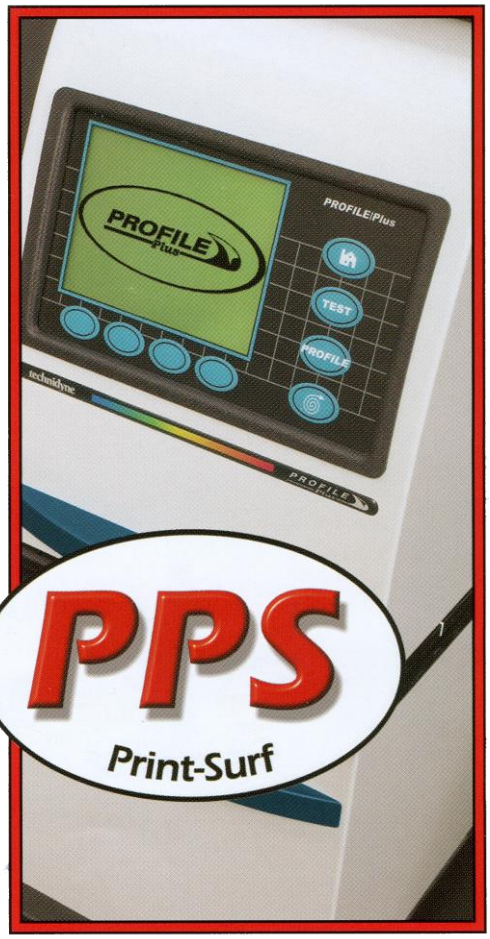
PROFILE/Plus

Solutions for the pulp, paper and allied industries

Automated PPS

The Technidyne PROFILE/Plus PPS automatically measures the roughness of paper and board according to the Parker Print Surf method and meets or exceeds these industry standards: TAPPI T 555, ISO 8791-4, BS 6563, Paptac D.31P.



- **Fast and accurate measurement of paper roughness**
- **Measures according to industry standards.**
- **Roughness measurements on both sides of the paper (optional)**
- **Advanced head design**
- **Self diagnostics ensure accuracy**
- **PROFILE/Plus Automated Testing System Ready**

Technidyne Corporation
100 Quality Avenue, New Albany, Indiana 47150 – 812-948-2884 – www.technidyne.com

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Features

Superior Measurement Heads
The PROFILE/Plus PPS head design incorporates advanced and proprietary metal fabricating techniques. The electron beam welding means that measuring heads last longer and are more robust.

Unique Calibration Technique
The PROFILE/Plus PPS incorporates a dummy head system that does not require measurement head removal, so flow verification is fast and easy.

O-ring Seal
The O-ring seal of the PROFILE/Plus PPS eliminates the need for petroleum jelly and reduces cleaning frequency, thereby improving performance.

Top-side and/or Bottom-side Measurement
The ability to measure both sides of the sheet is a valuable time saver that eliminates the need to feed the same sample through twice.

Precise Measurement Tolerances
PROFILE/Plus PPS measures reliably and accurately between 0.6 and 6.0 microns. It has been engineered to deliver precise results that can be used to fine tune process variables in the production environment.

Choice of Backings
The PROFILE/Plus PPS comes with both a soft and hard backing to address all your testing applications.

Dry Diaphragm Air Compressor
The PROFILE/Plus PPS is equipped with its own dry diaphragm compressor to ensure that the measurement air is always clean.

Measuring Head Air Purge
This feature automatically removes foreign material from the measuring area to increase measurement reliability and improve accuracy.

High Resolution Sensor
The built-in high resolution sensor increases the accuracy of the air flow, ensuring more stable results and improved confidence levels.

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Economic Benefits – Lowering Costs and Saving Money

- **Superior measurement heads** reduce the measuring head service frequency, thus lowering service costs.
- **Unique calibration technique** simplifies the operation of the instrument and saves time and money.
- **O-ring seal** eliminates the need for petroleum jelly thereby improving instrument uptime and availability.
- **Top-side and/or Bottom-side measurement** means fewer man-hours are required to complete testing and this reduces costs.
- **Precise measurement tolerances** ensure that the data is always accurate and reliable, thus reducing costly rechecks.
- **A choice of backings and measurement pressures** means that the same instrument can cover a wide range of applications, which lowers overall testing costs.
- **Dry Diaphragm Air Compressor** ensures that the measurement air is always clean thus eliminating the risk of costly repairs due to contamination.
- **Measuring Head Air Purge** automatically removes foreign material from the measuring area thereby reducing variability and allowing tighter control of the process.
- **High Resolution Sensor** increases the accuracy of the air flow, ensuring more stable results and improved confidence levels, thereby reducing retests.

PROFILE/Plus Automated Test System

PROFILE/Plus is a unique building block approach to automated testing. Each PROFILE/Plus instrument is a standalone instrument that can be easily placed in line with other PROFILE/Plus instruments to operate as an automated test system. This one of a kind versatility allows you the flexibility to build an automated test system that can be established over time or all at once. In addition as your testing needs change, the versatility of the PROFILE/Plus provides the flexibility to modify the testing sequence or move other test in to or out of the system. PROFILE/Plus puts you in charge of your automated testing program. In today's ever changing markets, having a testing program that can adapt, is key to long term viability.

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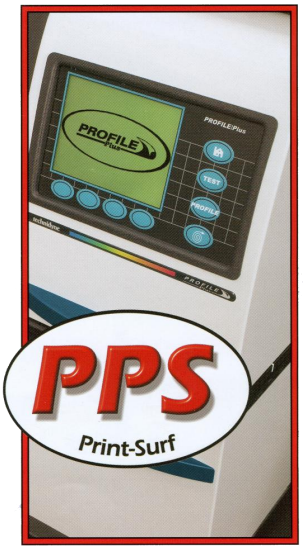
Specifications and Technical Data



- CD or MD profile strips
- Single sheet samples (automatically)
  - A3, A4, and 8½" x 11"
- Handsheets
- Thickness Range – 25 to 1000 µm
- Grammage Range - 15 to 600 g/m²
- Clamping Pressures – Kg/cm²
  - 5
  - 10
  - 20
- Range – 0.6 to 6.0 microns
- Weight -
  - 76 lb
  - 35 kg
- Dimensions –
  - Height = 26" (66 cm)
  - Depth = 18" (46 cm)
  - Width = 10 ½" (26.7cm)
- Voltage/Frequency -
  - 100-130 VAC/49-61 Hz
  - 210-250 VAC/49-61 Hz
- Air -
  - 30 - 40 psi
  - 205 - 275 Kpa

Results:

Test completed in seconds!

Top and Bottom side results

PPS Roughness

PPS Compression

Multiple measurement, averaging, statistics and trending capabilities

Average, Maximum Test Value, Minimum Test Value and Standard Deviation

Tabular and Graphical display of results

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