



# PROFILE/Plus® PPS Automated Test System

## Technidyne PROFILE/Plus® 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

## 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.

### 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.

## Technical Specification:

### Industry Standardization Paper & Board

|                                 |                                                                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Paper &amp; Board</b>        | TAPPI T555, ISO 8791-4                                                                                                                                            |
| <b>Sample Types</b>             | <ul style="list-style-type: none"><li>• CD or MD Strip (Automated)</li><li>• Letter &amp; A4 Sheets (Automated)</li><li>• Handsheets, Sheeted Materials</li></ul> |
| <b>Built-in Paper Feed</b>      | Yes                                                                                                                                                               |
| <b>Sample Grammage Range</b>    | 15 to 600g/m <sup>2</sup>                                                                                                                                         |
| <b>Sample Thickness Range</b>   | 25 to 1000µm                                                                                                                                                      |
| <b>Available Configurations</b> | <ul style="list-style-type: none"><li>• Top PPS Roughness</li><li>• Bottom PPS Roughness</li><li>• Top &amp; Bottom PPS</li><li>• Roughness</li></ul>             |
| <b>Calibration</b>              | Traceable to NIST                                                                                                                                                 |
| <b>Backings Available</b>       | <ul style="list-style-type: none"><li>• Hard</li><li>• Soft</li></ul>                                                                                             |
| <b>Measurement Units</b>        | Microns (µm)                                                                                                                                                      |
| <b>Measurement Range</b>        |                                                                                                                                                                   |
| <b>Roughness (Normal Range)</b> | 0.20–6.5µm                                                                                                                                                        |
| <b>Roughness (High Range)</b>   | 6.0–15.0µm                                                                                                                                                        |
| <b>Measurement Results</b>      | <ul style="list-style-type: none"><li>• Parker Print Surf Units</li><li>• Compressibility</li></ul>                                                               |
| <b>Statistics</b>               | <ul style="list-style-type: none"><li>• Average</li><li>• Maximum Test Value</li><li>• Minimum Test Value</li><li>• Standard Deviation</li></ul>                  |
| <b>Available Configurations</b> | <ul style="list-style-type: none"><li>• Top Side Burst</li><li>• Bottom Side Burst</li></ul>                                                                      |
| <b>Data Views</b>               | <ul style="list-style-type: none"><li>• Tabular</li><li>• Graphs</li><li>• Profile data</li></ul>                                                                 |
| <b>User Interface</b>           | Touch Panel and LCD Display with Multi Function Keys                                                                                                              |

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Measurement Time</b>              | 4 to 10 seconds<br>(measurement dependent)                                                                |
| <b>Data Communications /Ports</b>    | <ul style="list-style-type: none"><li>• RS232C (Tags Optional)</li><li>• Printer (DB9 and DB25)</li></ul> |
| <b>Recommended Operating Temp.</b>   | 10–32° Celsius (50–90°F)                                                                                  |
| <b>Power Consumption</b>             | 120 watt max/80 watts passive                                                                             |
| <b>Data Communications /Ports</b>    | <ul style="list-style-type: none"><li>• RS232C (Tags Optional)</li><li>• Printer (DB9 and DB25)</li></ul> |
| <b>Recommended Operating Temp.</b>   | 10–32° Celsius (50–90° F)                                                                                 |
| <b>Power Consumption</b>             | 200 watt max/80 watts passive                                                                             |
| <b>Voltage/Frequency Requirement</b> | 100–250VAC/48–61Hz                                                                                        |
| <b>Air Requirement</b>               | 275Kpa (40psi)                                                                                            |
| <b>Dimensions</b>                    |                                                                                                           |
| <b>Depth</b>                         | 46cm (18in)                                                                                               |
| <b>Width</b>                         | 26.7cm (10.5in)                                                                                           |
| <b>Height</b>                        | 66cm (26in)                                                                                               |
| <b>Weight</b>                        | 35kg (76lbs)                                                                                              |
| <b>Country of Origin</b>             | U.S.A.                                                                                                    |

### Contact Details

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