Automated Caliper

The PROFILE/Plus Caliper automatically measures the caliper of paper or board samples.

+ **Precise Platen Parallelism**

+ **Fast and accurate results**

+ **Easy Calibration**

+ **Self Cleaning Function**

+ **Detailed Profiling Capability**

+ **PROFILE/Plus Automated Testing System Ready**

Features

Precise Platen Parallelism

Parallelism is critical for good thickness testing. If the platens are not parallel, you simply will not get reliable test results. Technidyne has made this process as simple as possible by integrating the hardware and the software into a unique system. During the final calibration and quality checks the measuring surfaces undergo a rigorous process to make sure that the parallelism is set exactly to the specifications. Once this has been accomplished the internal mechanism insures that the platens stay parallel.

Easy Calibration

The software allows you to set the zero point with the simple push of a button. The instrument provides reminders to clean your platens before setting the zero, insuring the zero point is set precisely each and every time. The primary calibration is simple and fast as the user friendly software steps you through the process. A timer can be set to remind you to calibrate, either by elapsed time or number of tests, or both.

Self Cleaning Function

The self cleaning device is activated before *each* measurement to ensure that the test results are both reliable and accurate. A puff of air is directed toward the measurement surfaces to remove any foreign material that could adversely affect the measurement results.

Detailed Profiling Capability

The PROFILE/Plus Thickness provides a detailed profile automatically with the built-in Paper Advance System (PAS). This allows you to look at the profile across the entire web to meet your customer's strict thickness specifications. PROFILE/Plus Thickness is simple to operate as a stand-alone instrument, or as part of Technidyne's PROFILE/Plus system.

Adheres to Industry Standards

The PROFILE/Plus Caliper instrument meets or exceeds paper industry standards to provide the accuracy and repeatability you need from this critical test parameter: TAPPI T411, Paptac D.4, ISO 534, SCAN-P7, JIS standard.

Fast and Accurate

Each measurement is made in less than a few seconds, so you receive data as quickly as possible. Whether calibrating on-line sensors or verifying the precise thickness of your products, PROFILE/Plus Caliper will insure your process is under control and your on-line instruments are operating properly.

Economic Benefits – Lowering Costs and Saving Money

Precise platen parallelism means the instrument is always measuring correctly, thereby reducing maintenance/support costs**.**

Easy calibration ensures accurate results and reduces the amount of rechecks required – thereby saving money

Self cleaning function can improve test repeatability - saving operator time and thus saving money

Detailed profiling capability provides timely information to papermachine operators allowing them to make positive process changes to improve quality, lower rejects, reduce customer complaints and save money.

PROFILE/Plus customers have reported that money savings can be realized in the areas of furnish, chemical addition, customer complaints, and reduced paper machine breaks. Manpower efficiency can also be improved by increasing the testing frequency and accuracy, which lowers the overall cost of testing.

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.

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

✚ Measurement accuracy to ± 20 micro inches (0.000508 mm).

✚ Parallelism ± 40 micro inches (0.001016 mm)

✚ Weight –
  - 72 lb
  - 33 kg

✚ Dimensions -
  - Height = 26" (66 cm)
  - Depth = 18" (46 cm)
  - Width = 10.5" (26.7 cm)

✚ Voltage/Frequency -
  - 100-130 VAC/49-61 Hz
  - 210-250 VAC/49-61 Hz

✚ Air -
  - 30 - 40 psi
  - 205 - 275 Kpa

Results:

Measurement completed in seconds!

Thickness results according to industry standards

Multiple measurement, averaging, statistics and trending capabilities

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

Tabular and Graphical display of results