PG9800T FEATURES
● Performs all thickness and height measurements in a single operation
● Quick, accurate, non-contact, non-destructive method
● Automatically records and analyzes data
● Measures up to eight sectors around the container
● Provides integrated section average calculations for three or five section applications
● Internal database stores data for numerous container types
● Auto-teach mode for easy setup
● Simple, graphical screen for viewing ongoing test results
● Windows® XPE operating system
● LCD touch screen operator interface
● USB printer and data connectivity
● Rotary table for automatic positioning of test samples

OPTIONAL ACCESSORIES
✓ Spare Parts Package
✓ Extended Service/Calibration Agreement

Accurate, effective, non-destructive alternative to section weight measurements
● Eliminate section weight
● Identify shifts in distribution instantly
● View graphic display of wall thickness

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The Profiler Gauge PG9800T is an automated measuring device for at-the-line and laboratory-based wall thickness distribution measurement of PET containers.

✔ Economical alternative to section weight measurements
✔ Precision tool for determining wall thickness distribution and overall height
✔ Provides fast, highly efficient data for the control of the blowmolding process

WHY MEASURE THICKNESS DISTRIBUTION?
Sidewall thickness distribution information is the key factor for achieving the optimum preform heating profile of the blowmolder. Additionally, material distribution is the largest indicator of overall bottle performance. It is the most sensitive characteristic for detecting changes in process parameters affecting topload, burst, volume expansion, water vapor transmission rate, and other critical properties essential to the successful performance of the package.

THE Agr SOLUTION
The Agr Profiler Gauge PG9800T was developed in response to a demand by PET container manufacturers for a fast, simple method to determine the wall thickness distribution. The PG9800T is designed to fill this requirement by providing non-destructive wall thickness distribution measurements in graphic form. The entire test process of the PG9800T is completely automatic and takes just a few seconds. Because the PG9800T can determine thickness distribution without destroying the container, it can be used to replace outmoded destructive methods, saving time and money.

PG9800T – MEASUREMENT PRINCIPLE
The PG9800T uses IR absorption technology to accurately determine wall thickness in PET and similar containers. A light beam is directed through the sidewall of the bottle. A proprietary sensor detects the amount of IR absorbed by the container sidewall and calculates the depth of the IR absorption peaks to determine the bottle's thickness at various points over its length.

QUICK AND EASY OPERATION
To use the PG9800T, a bottle is placed on the test table and the operator only needs to push a button to start the operation. Once initiated, a light tube descends into the bottle, continuously detecting sidewall thickness distribution and overall height until it reaches the bottom. The large, integrated display instantly shows the actual thickness profile against the pre-programmed tolerance. The average thickness is calculated automatically.

SIMPLE SETUP & EASY JOB CHANGE
The PG9800T requires no at-the-line programming or job-change tools. The operator simply selects the measurement profile from a menu and runs the test. Data is automatically stored along with that profile. When a profile for a new container is required, setup is simple, utilizing the built-in “teach mode” setup assistant.

MEASUREMENT MODES

Vertical Thickness Profile Measurement
In this mode, the PG9800T scans the full length of a container’s sidewall to gather thickness data. Up to eight operator-defined vertical sectors can be programmed into a test profile for comprehensive bottle measurement. Wall thickness measurement results can be displayed in graphical or numerical format, as section averages.

Horizontal Thickness Profile Measurement
This function permits thickness measurements to be taken at a specific horizontal position on a container body. Up to eight operator-defined horizontal sectors can be programmed into a test profile.

INTEGRATED SECTION AVERAGES PERFORMED AUTOMATICALLY
Using the comprehensive thickness data, the PG9800T can automatically calculate the integrated section averages for either three or five section applications. With this information, the PG9800T can provide thickness data that is significantly more accurate and cost effective than traditional cutting and weighing of bottle sections. In many applications, the PG9800T can replace destructive, labor-intensive methods.

GRAPHICAL DISPLAY OF TEST DATA
At the conclusion of a test, the PG9800T automatically plots a thickness profile and graphically displays it on its built-in display. For each sample, test results can be viewed as an average thickness profile, or when multiple sectors are measured, graphs for each sector can be viewed at the same time. This provides a quick and easy way to identify distribution shift and process changes.

BENEFITS:
- Provides accurate and repeatable data on thickness distribution
- Improves profitability via higher productivity and reduced waste
- Removes the human element and tedium from section weight measurement
- Replaces destructive test methods
- Provides vital data for control of blow molding process
- Offers rapid throughput, at and near the line
- Fast payback

PG9800T Performs:
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