

Model T5 Transmission Densitometer

Opacity & Density Measurement for Specialty and Commodity-Grade Film and Sheet Producers



The Model T5 Transmission Densitometer

The model T5 delivers more than you might expect from a film opacity meter. Designed for off-line use in the laboratory or on the production floor, its technology is based on the specular-diffuse optical principle of ANSI PH2.19. As you place your film sample under the sensor, minute opacity variations are measured and recorded, producing a continuous cross-web check for opacity with unsurpassed accuracy and repeatability.

Improved Film Quality, Increased Profit Margins

The Model T5 is a proven tool for more closely controlling nominal and uniform colorant density in your:

- Colorant-feed / mixing setup and adjustments
- Research and development of new film products
- Inspection of incoming film products
- In-process checks to ensure on-spec product for secondary operations
- Quality-control reporting

By measuring the baseline and ongoing performance of your extrusion system, the T5 can help you improve film quality, resulting in fewer returns, less off-spec product and reduced scrap. And the T5 can lower colorant and additive costs too, increasing your profit margins.

The Oakland Instrument Advantage

Oakland Instrument Corp.'s model T5 offers numerous advantages:

Unparalleled Stability

- Its proprietary sensor and electronic design reduces to negligible levels optical drift caused by temperature fluctuations. No warm-up time is required for the Model T5.

Unsurpassed Accuracy and Repeatability

- Our sensor and electronic design deliver greater accuracy and repeatability of measurement results.

Easy, Error-Free Operation

- Equipped with intuitive keypad and easy-to-read digital display, the T5 is simple to operate, minimizing the chance of operator error.

Expandable

- You can operate the T5 as a portable, stand-alone meter, or add accessories to increase its capabilities. Expand your system with a computer and software for statistical analysis.

Affordable

- Best of all, the T5 is economically priced, resulting in fast payback of investment.

Oakland Instrument

Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, packaging, and paper industries.

Customer-Driven

We team with our customers to help them solve their quality and process-control problems.

Technology-Based

Our applications knowledge and engineering depth allow us to offer both standard and custom systems based on industry-leading technology.

Significant Features

- Portable, standalone or expandable with optional features
- Intuitive keypad data entry and easy-to-read digital display
- Simple to calibrate
- Serial (RS-232) output for computer collection of opacity data

Specifications

Mode of Operation:	Off-line opacity (density)/lab use
Materials:	Nonmetallic plastic film
Measurement Range:	
Density:	0.00 D – 6.00 D
Thickness:	0-20 mils (0-500 microns)
Accuracy:	+/-0.02 D
Repeatability:	+/-0.01 D
Resolution:	0.01 D
Operating Temperature Range:	41° F - 104° F
Optical Design:	Specular – Diffuse (ANSI PH2.19)
Power Requirements:	115 VAC, 60 Hz or 230 VAC, 50 Hz
Dimensions (LxWxH):	9 in (251 mm) x 4.1 in (103 mm) x 4.9 in (125 mm)
Weight:	10 lb (4 kg)

(Due to continuous product improvement, all specifications are subject to change without notice).

Options and Accessories

- Quality Control Software for statistical analysis of opacity data
- Standard or custom systems designed to meet specific customer needs
- Sample support table for measuring larger sample sizes

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Ordering Information

