



## PERMATRAN-C® MODEL 4/30 CARBON DIOXIDE PERMEATION ANALYZER

### High Performance Carbon Dioxide Permeation Analyzer

The PERMATRAN-C 4/30 is a trusted high-performance Carbon Dioxide Transmission Rate (CO<sub>2</sub> TR) analyzer for low to high-level barriers and packages. This instrument is ideal for testing mono and multi-layer films, bottles, and closures, and offers quick results to help drive research and development programs or support efficient quality control operations. It features two independent cells with interchangeable horizontal test cartridges that allow a wide variety of sample sizes and types to be easily and accurately tested.

### Versatility and Efficiency

The PERMATRAN-C 4/30 is designed to test CO<sub>2</sub> TR for low to high-level barriers on films, packages and bottles. Unlike manometric or Zahm-Nagel methods that require long periods of time to provide results, the patented AMETEK MOCON® modulated IR sensor system allows the 4/30 to provide accurate results in a shorter time frame. With the optional adapter cartridge it can also test additional applications such as complete or partial packages, flexible or rigid containers, bottles and/or closures, and seals in the form of O-rings or gaskets. The interchangeable cartridges also work with other Next Generation AMETEK MOCON permeation analyzers. These purpose-built cartridges increase accuracy, extend the range, or make it possible to test unique or difficult samples. All test cartridges incorporate our AMETEK MOCON exclusive TruSeal® design utilizing two seals and flushes gas between those seals to prevent ambient ingress into the test area. This reduces background levels, improves repeatability, and reduces the need to run individual zero.

**Precision Measurement with Modulated IR Sensor**

Using a patented modulated infrared (IR) technology, this sensor provides accurate and repeatable results. It has the longest life of any CO2 TR sensor on the market, and is the only modulated IR sensor system to meet the ASTM F2476 standard.

**Advanced Control System**

The user friendly WinPerm2 control system features fully automated testing including temperature, gas flow and sensor sample time. Final test reports are automatically saved and can be set to automatically print and export to permanent storage directories. The analyzer is compatible with PermWare®, your complete permeation laboratory data management system.

The test mode options make testing known or unknown samples easy and repeatable. A single button push initiates a fully automated test following pre-set stored parameters, reducing operator variability. The intuitive color touchscreen is easy to learn and use while the automated testing provides consistent results and fewer potential errors

**Industry Standard in CO2 TR Testing**

The PERMATRAN-C 4/30 features our exclusive test cell drawer design with two horizontal removable easy-to-load cartridges. A single button opens and closes the drawers, and the cartridge is automatically clamped in place with consistent and even force on any sample thickness. This approach provides greater test repeatability than manual or cam clamping methods.

**Performance Specifications**

Test Temperature Range:	10°C to 40°C ± 0.2°C
Controlled RH Testing Ranges:	0%
Maximum Film Thickness:	Up to 120 mil, 3 mm
Carrier Gas:	Nitrogen (99.7% N2 or better)
Test Gas Carbon:	Dioxide (99.7% CO2 or better)

**Industry Standards**

ASTM F2476 · DIN 53380-4 · ISO 15105-2

**Connectivity**

- Ethernet Port
- 2 USB Ports
- Optional PERM-NET™ Lite for remote monitoring

**Dimensions & Weight**

Depth: 23" or 58.0 cm  
 Width: 12" or 30.4 cm  
 Height: 15.5" or 39.4 cm  
 Weight: 95 lbs. or 42.1 kg

**Conformance Standards**

CE, UL, CSA Safety Compliance



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