

MultiCheck™ 300

Package Integrity Test System for O₂ Headspace, Seal Strength & Leak Detection

The MultiCheck™ 300 Package Integrity Test System combines MOCON's Lippke® 4500 series and its PAC CHECK® 302 to provide an all-in-one system that measures O₂ headspace coupled with leak detection and seal strength.

Ideal for a broad spectrum of food, pharmaceutical and medical products which are shelf life sensitive, the MultiCheck™ 300 allows users to significantly reduce resources and testing times while achieving the same accurate results by using only half the number of package samples.

Designed to perform virtually all accepted test methods used to measure O₂, seal strength, leak detection and total package integrity.



Capabilities

- **O₂ Headspace Analysis**

Analyzes the oxygen headspace in modified atmosphere packages in seconds.

- **Seal Strength**

Measures the bond strength of package seals and material strength by measuring the peak pressure at which the package seals separate or shear. Test porous as well as non-porous packages.

- **Leak Detection**

Measures the hermetic seal of packages by measuring a constant pressure to determine whether the package seal or material has a leak path to atmosphere.

Optional Capabilities

- **Multi-Test Option**

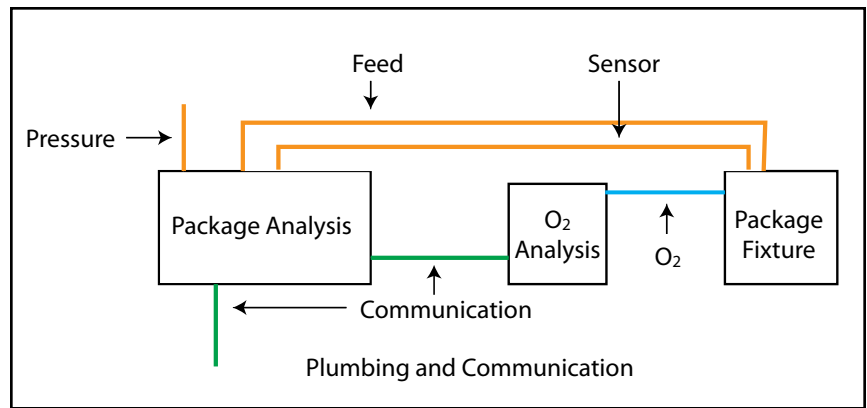
Enhance the capability of the Test System by including the optional Multi-Test Package. This package provides five additional modes of test method capability supplementing the standard leak and seal strength tests and enables leak and seal testing to be conducted on a single package.

Benefits

- Save time & costs by using only one sample to do three different tests.
- Software enables users to create testing protocols, link them to SKUs and plot and transfer data to a network storage device.
- Optional barcode reader can be used to quickly identify the UPC.
- The PAC CHECK 302 comes with Cal-Smart® – MOCON's on-demand, no tank gas, smart calibration system that reduces the hassle and cost of calibration.

Typical Applications

- Meat/Poultry
- Coffee
- Cheese
- Snack Foods
- Pharmaceuticals
- Beverages
- Flexible, Semi Rigid, Rigid Packages
- Polymer, Paperboard, Metal Based Materials



Lippke® 4500 Technical Specifications

| | |
|---|---|
| Air pressure Supply | 4.0 - 8.0 bar / 60 - 120 psi |
| Environmental Temperature | +15 °C to +40 °C |
| Ambient Operating Conditions | 0-90% Relative Humidity (non-condensing) |
| Pressure Readout Units | Pounds Per Square Inch (PSI), Millibar (mbar), Millimeter of Mercury (mmHg) |
| Three Measuring Ranges of Pressure per Range | 14.5 PSI (1 Bar) 43.5 PSI (3 Bar) 101.5 PSI (7 Bar) |
| Pressure Sensor Accuracy and Repeatability per Measuring Range* | 0.007 PSI (0.5 mbar)* 0.03 PSI (2.0 mbar)* 0.07 PSI (5.0 mbar)* |
| Supply Voltage | 100 - 250 VAC with built in surge protection |
| Weight | 14.3 (pounds) |

* ± the specified pressure or 1% of value, whichever is greater.

PAC CHECK® 302 Technical Specifications

| | |
|----------------------------------|--|
| Accuracy - O ₂ Sensor | ±0.1% absolute or 2% relative whichever is greater |
| Resolution | 0.01% O ₂ |
| Range - O ₂ Sensor | 0% to 100% |
| Response | 98% of final value within 6 seconds |
| Oxygen Measurement | Chemical Cell |
| Calibration | Automated two point, or manual three point |
| Sample Method | Auto internal sampling pump. (Manual injection optional) |
| Adjustable Pump Time | 1-90 sec. |
| Dimensions and Weight | 8" x 4" x 1.5" 2.5 lbs. (with batteries and protective boot) |
| Ambient Operating Temperature | 5° - 35° C |
| Ambient Humidity | 10 to 90% non-condensing |
| Minimum Sample Size | <5 cc auto (3 cc with manual option) |
| Supply Voltage | 100 -240 VAC or (4) 2000 mAH NiMH rechargeable batteries |

Additional Unit Specifications

| | |
|---------------|---|
| Standards | ASTM F1140, ASTM F2054, ASTM F2095, ISO-11607, 21 CFR Part 11 |
| Frequency | 50/60 Hz ± 1 Hz |
| Communication | RS232 Port |
| Languages | English, Spanish, German, Italian, French, Swedish & Polish |
| Markings | CE, CSA, and UL |

MOCON Commitment

These MOCON analytical instruments are another example of MOCON's long-standing commitment to innovation and quality in the support of customers.

Technical Support & Service

MOCON offers a variety of technical services designed to provide you with first class technical support. Whether you require technical support, next-day spare parts delivery, on-site training, N.I.S.T. certification or "turn-key" validation, our technical support staff can tailor a service program to fit your needs. Our goal is to provide the best in product support services.

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MOCON reserves the right to change specifications without notice as part of our continuous program of product improvement.

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