AMETEK MOCON SOLUTIONS
FOR THE COFFEE MARKET

Protect Your Coffee with the Right Quality Control and Assurance Solutions for Optimal Shelf Life & Package Integrity
KEEP COFFEE FRESH
FROM PRODUCTION TO CUSTOMER

AMETEK MOCON Solutions For Quality Control & Quality Assurance In The Packaging Coffee Process

IT’S TIME TO PACK
- Avoid ballooning effect during shelf life of your coffee packages
- CO₂ continuous monitoring of emissions of the roasted grounds
- Efficiently plan next stages

Solution: On-line monitoring of CO₂ emissions over time and O₂ %

KEEP YOUR GAS O₂ FREE
- N₂ continuous monitoring
- Prevent coffee oxidation and monitor gas consumption

Solution: O₂ and/or CO₂ continuous monitoring

REDUCE WASTE, SAVE GAS, PROTECT YOUR COFFEE
- On-line non-destructive continuous monitoring of O₂ – O₂/O₂ CO₂ %
- Uniform production
- Full data traceability, remote control paperless data recording

Solution: On-line monitoring for quality assurance

SHELF LIFE STUDIES, PACKAGING R&D AND QUALITY CONTROL
- Laboratory analysis
- Packaging material testing
- Check barrier properties of packaging materials

Solution: Headspace analysis of residual O₂ over time. Package and gas permeability instrument.

COFFEE READY FOR CONSUMERS
- Prevent coffee oxidation during shelf life
- Protect coffee freshness and aroma
- Store data for quality control audits

Solution: Headspace analyzer and package integrity tester

MAP Check 3 O₂ / CO₂
On line gas analyzer to monitor CO₂ emission and residual O₂ during ground roasted coffee degassing - optional Multiplexer to check up to 3 sampling points

ISM 3
Entry level On line gas analyzer to monitor O₂ residual in pressurized gases for MAP packaging - see also MAP Check 3 pressure for enhanced full data traceability and MAP Nix. Proventus for N₂/CO₂ gas mixtures

VFFS
Vertical Form Fill & Seal

MAP Check 3 O₂ / CO₂
On line gas O₂ and O₂/CO₂ analyzer for quality assurance, with or without GasSave option for gas savings - Multiplexer option available

Lippke 4000/4500 Benchtop Analyzer
Leak, Creep, Burst, Dye, Bubble test and Pressure Valve tester

OpTech-O₂ Model P Hand-held Headspace Analyzer

Seal Integrity Tests

LeakPointer 3 and LeakPointer 3+
Benchtop Leak Tester
## HEADSPACE ANALYZERS
### COFFEE PACKAGE TYPES

<table>
<thead>
<tr>
<th>Package Type</th>
<th>CheckPoint 3 EC</th>
<th>CheckMate 3 EC</th>
<th>OpTech-O₂ Model P*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Pack Whole Beans or Ground</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Stick Pack</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Flow Pack with Pods</td>
<td>✔</td>
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<td>✔</td>
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<tr>
<td>Flow Pack with Capsules</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>K-Cup*</td>
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<td>✔</td>
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</tr>
<tr>
<td>Single-Serve Capsule with Limited Headspace</td>
<td>❌</td>
<td>❌</td>
<td>✔</td>
</tr>
<tr>
<td>Canned Coffee Whole Beans or Ground</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Vacuum-Packed Coffee</td>
<td>❌</td>
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<td>✔</td>
</tr>
</tbody>
</table>

*Lab application; Needle, ImPulse Sensor required

* K-Cup is a registered trademark of Keurig Green Mountain, Inc - all rights reserved

### Service and Maintenance
- Repair and calibration
- Dedicated service technician
- Annual wear kit
- Preventative maintenance kit
- Flexible plans

### Lab Testing and Consulting
- High temperature and humidity testing
- Permeability measurement of packaging material O₂ barrier properties
- Custom test method development
- Operator training
- Expert Application Specialists

SCAN TO LEARN MORE!

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