

AutoMAP™

TDLAS based sensor module to test packages with a transparent film like trays, pouches, and thermoformed bags for the headspace oxygen concentration.

For non-destructive 100% inline quality testing. The AutoMAP™ allows fast and easy testing of transparent packages.

The film is attached to the sensor module using vacuum. The laser light is sent into the headspace of the package and the oxygen concentration is measured using TDLAS technology. The measurement is done non-destructive to the package.



Benefits

- Non-destructive MAP testing
- O₂ measurements
- High or residual O₂ measurements
- Parameter free
- Completely eye safe
- Easy to adjust to different package sizes



Instrument specifications

Headspace volume:	>10 ml
Required transparent area:	>30 mm x 30 mm
Supported package type:	Flexible and transparent packages, one flexible film side required. Packages like trays, thermoforms, bags, flow wraps, pouches.



Application specifications

Gas:	O ₂
Measuring technique:	TDLAS
Measurement range:	0 - 100% O ₂
Measurement time:	Adjustable down to 50 ms measurement time
Full test cycle:	Typically 1 sec
Precision and accuracy:	±0.1% O ₂ Dependent on measurement time
Approvals:	CE-marked according to: - EMC 2014/30/EU, - Low Voltage Directive 2014/35/EU
Temperature:	2 - 30°C
Communication interfaces:	Serial RS422, Digital outputs
Housing:	Sensor head: Aluminum, Electronic box: stainless steel
Weight:	Sensor head: 1 kg Electronic box: 2 kg
Dimensions (HxWxD):	Sensor head: 90 mm x 170 mm x 70 mm, Electronic box: 90 mm x 200 mm x 200 mm
Power supply:	18 - 30 V DC
Laser Class:	Class 1