

Product data sheet

## AutoMAP™

TDLAS based sensor module to test packages with a transparent film like flexible film bags & pouches, including primary and secondary bags as well as multi-chamber bags for the headspace oxygen concentration.

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

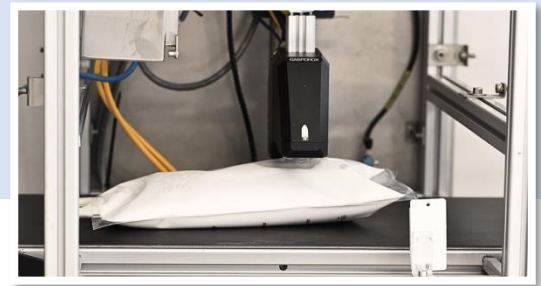
The film is attached to the sensor module using vacuum. The laser light is sent into the headspace of the package and the oxygen concentration is measured using TDLAS technology.

The measurement is done non-destructive to the package.



### Benefits

- Residual oxygen measurement
- Non-intrusive and non-destructive
- Accurate
- Robust
- No external triggering needed
- No nitrogen purging needed
- Easy to integrate
- Small footprint on the production line
- Parameter free



### Sensor specifications

Gas:	O <sub>2</sub>
Measuring technique:	TDLAS
Measurement range:	0-100% O <sub>2</sub>
Measurement time:	Adjustable down to 50ms measurement time
Full test cycle:	Typically 1 sec
Precision and accuracy:	+/-0,1% O <sub>2</sub> Dependent on measurement time
Approvals:	CE-marked according to: - EMC 2014/30/EU, - Low Voltage Directive 2014/35/EU
Temperature:	4-30 degrees Celsius
Communication interfaces:	Serial RS422, Digital outputs
Housing:	Sensor head: Aluminum Electronic box: stainless steel
Weight:	Sensor head: 1kg Electronic box: 2kg
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

### Application specifications

Headspace volume:	>10 ml
Required transparent area:	>30x30 mm
Supported package type:	Flexible film bags & pouches, including primary and secondary bags as well as multi-chamber bags.

