

# LEAK DETECTION SYSTEM LEAK-MASTER<sup>®</sup> PRO 2



Micro-leak detection system for packages based on CO<sub>2</sub>. LEAK-MASTER<sup>®</sup> PRO 2 features non-destructive detection of the smallest leaks without the need for costly Helium.

Evacuated chamber with the help of a compressed air operated Venturi nozzle (optionally also with electric vacuum pump). Status indication by LED lighting of chamber.

#### Benefits

- visual indication of status via LED lighting
- short testing period by minimal response time
- quick product change
- for flexible and rigid packs
- especially durable and low in maintenance
- no calibration required
- standardised test processes user independent
- operator friendly data and process parameter entry by means of integrated keyboard or remote personal computer (e.g. MS-Excel<sup>®</sup>)
- easy-to-use intuitive system no special skills required
- convenient data administration and evaluation for customer oriented quality documentation
- various chamber sizes (see back side)
- easy installation and start-up
- easy to clean splash-proof stainless steel and acrylic glass cabinet / housing
- remote transmission of results via Ethernet

#### Options

- Barcode Reader with IP-protection for simple and quick user/product selection
- with electrical vacuum pump
- software GASCONTROL CENTER for recording of results (see separate data sheet)

## Status:

Leak

## Measuring







## LEAK DETECTION SYSTEM **LEAK-MASTER® PRO 2**



Type Measuring System	LEAK-MASTER <sup>®</sup> PRO 2 infrared measuring cell for CO <sub>2</sub>	Compressed air pressure	min. 6 bar, max. 8 bar	
Measuring range Resolution	0 ppm - 5 000 ppm 1 ppm	Status	LED lighting	
Leak size measurements	> 10 µm (depending on the product and the test conditions)	Interfaces	Ethernet (WLAN optional)	
Warm-up time Calibration	approx. 10 min. not required	Cabinet / Housing	stainless steel, acrylic glass IP 54 with closed chamber	
of the sensor Leak testing cycle	approx. 1 sek. depends on leak size, CO <sub>2</sub> -percentage in package, size of chamber	Approvals	Company certified according to ISO 9001and ISO 22000 CE marked according to:	
Vacuum	max. 200 mbar abs. (approx800 mbar to ambient pressure),adjustable		- EMC 2014/30/EU - Low Voltage Directive 2014/35/EU	
Vacuum generation	compressed air powered venturi injector		for food-grade gases according to: - Regulation (EC) No 1935/2004	

## Our chamber sizes – for sample analysing

Model		Chamber-size approx. in [mm] (inch) (H x W x D)	Cabinet / housing-size approx. in [mm] (inch) (H x W x D)	Weight approx. in [kg]	Voltage
	LM 2.1	42 x 310 x 200 (1.7 x 12.2 x 7.9)	316 x 364 x 405 (12.4 x 14.3 x 15.9)	20.0	100 - 230 V 50 - 60 Hz 50 W
	LM 2.2	174 x 310 x 200 (6.9 x 12.2 x 7.9)	450 x 364 x 405 (17.7 x 14.3 x 15.9)	23.5	100 - 230 V 50 - 60 Hz 50 W
	LM 2.3	100 x 460 x 305 (3.9 x 18.1 x 12.0)	462 x 556 x 557 (18.2 x 21.9 x 21.9)	35.0	100 - 230 V 50 - 60 Hz 50 W

#### Caution!

This equipment is not suitable for the checking of packaging featuring  $O_2$  content greater than 20.9% (fresh meat, for example).