

# LEAK DETECTION FOR LARGE PACKAGES

## LEAK-MASTER® PRO



Leak detection for large packages or boxes, based on CO<sub>2</sub>-technology. LEAK-MASTER® PRO features non-destructive detection of the smallest leaks without the need for costly Helium.

### Benefits

- minimal response time
- quick product change
- for flexible and rigid packs
- no calibration required
- operator friendly – data and process parameter entry by means of integrated keyboard or remote personal computer (e.g. MS-Excel®)
- easy-to-use intuitive system – no special skills required
- convenient data administration and evaluation for customer oriented quality documentation
- two chamber sizes (HxWxD) 140 x 680 x 500  
230 x 680 x 500
- easy installation and start-up
- easy to clean splash-proof stainless steel cabinet / housing
- remote transmission of results via Ethernet
- potential free alarm contact for connection of external audible/visual device

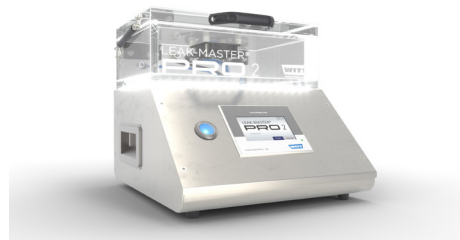


further information on  
[www.leak-master.net](http://www.leak-master.net)

### Options

- Barcode Reader with IP-protection for simple and quick user/product selection
- leak simulation kit for testing and defining acceptable leak rates
- connection for rinsing air
- wireless data transmission via WLAN (WIFI)

For non-destructive testing of smaller packages  
see LEAK-MASTER® PRO 2




<b>Type</b>	LEAK-MASTER® PRO	<b>Alarms</b>	potential free contact max. 250 V AC or 24 V DC/2 A
<b>Measuring System</b>	infrared measuring cell for CO <sub>2</sub>	<b>Interfaces</b>	Ethernet (WLAN optional)
<b>Measuring range</b>	0 ppm - 5 000 ppm	<b>Cabinet / Housing</b>	stainless steel, IP 54 (splash-proof)
<b>Resolution</b>	1 ppm	<b>Approvals</b>	Company certified according to ISO 9001 and ISO 22000  CE marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU - Machinery safety 2006/42/EC  for food-grade gases according to: - Regulation (EC) No 1935/2004
<b>Warm-up time</b>	approx. 10 min.		
<b>Calibration</b>	not required		
<b>Response time of the sensor</b>	approx. 1 sec.		
<b>Leak testing cycle</b>	depends on leak size, CO <sub>2</sub> -percentage in package, size of chamber		
<b>Vacuum</b>	max. 50 mbar abs.		

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Two chamber sizes – 100%-analysis especially for large packages or boxes, e.g. E2.

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. [kg]	Pump capacity [kWh]	Pump suction capacity [m <sup>3</sup> /h]	Voltage
 <b>LM 12.1</b>  <b>LM 12.2</b>	230 x 680 x 500 (9.1 x 26.8 x 19.7)	1 025 x 760 x 855 (40.4 x 29.9 x 33.7)	225	2.20	100	400 V AC
	140 x 680 x 500 (5.5 x 26.8 x 19.7)	1 025 x 760 x 855 (40.4 x 29.9 x 33.7)	225	1.50	63	400 V AC

**Caution!**

*This equipment is not suitable for the checking of packaging featuring O<sub>2</sub> content greater than 20.9% (fresh meat, for example).*

For non-destructive testing of smaller packages see LEAK-MASTER® PRO 2.