GASLOGGER

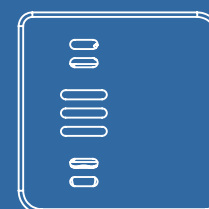**Minidatalogger wireless that measures, records and transmits O2 concentration, pressure, temperature and RH.**

2.4 GHz

O₂

%

mbar

Gaslogger is an innovative instrument based on wireless technology that allow you to monitor real-time both oxygen concentration, pressure, temperature and the relative humidity, inside a closed container. The data can also be logged. The instrument is small sized (44x44x29 mm) and composed of two parts: the sensitive head Gaslogger which measures, records and transmits the data and the receiver IceTag Reader USB which can control thousands of Gaslogger heads by reading, graphing and recording simultaneously each parameter of 5 of them. Every Gaslogger can store up to 75000 acquisitions of all 4 sensors, with an acquisition interval from a second to a day.

For the first time with Gaslogger it's possible to monitor the changes of the oxygen concentration, pressure, temperature and the relative humidity, into the food packages with the product inside in real conditions, out of the analytical laboratories, along throughout the supply chain also. With Gaslogger there is no need to puncture the container anymore to measure the parameters of interest but you just need to place the sensor itself into the package, to seal the product and start the measurement. The data can be collected real-time or download upon the receipt of the product even on the other side of the world. Gaslogger can measure even within non-transparent containers that cannot be measured with optical techniques.

Finally, thanks to Gaslogger, you can monitor from the inside the real changes of the MAP into packages with food inside and in this way you can avoid the problems of the theoretical modeling due to the complexity of the food. Even the performances of new active intelligent packaging with oxygen absorbers or scavengers can be tested for the first time in real conditions.

GASLOGGER

INTERNAL DEVICES & SENSORS		
Oxygen sensor:	Range: 0 - 25% Autoscaling on 2 ranges: (0-5% e 0-25%) Resolution: 0.05%	
Pressure sensor:	Range: 10 / 1200 mbar Resolution: 0.6 mbar Accuracy: ±1.5 mbar	
Temperature sensor:	Range: -10 / +50 °C Resolution: 0.1 °C Accuracy: typ ±0,2 - max 0,4 °C	
Humidity sensor:	Range: 0 - 100% RH Resolution: 0.05% RH Accuracy: typ ±2% - max ±4% RH	
Memory:	2Mb flash for datalogging (75000 acquisitions)	

RADIO		
Frequency:	2.4 GHz
Standard:	IEEE 802.15.4
Power:	Programmable up to 4.5 dBm
Reading distance:	100 m in free air

POWER SUPPLY	
	Non-rechargeable lithium batteries 3 V (standard CR2). Battery life from 2 to 10 years

WORKING TEMPERATURE	
	-10 / +50 °C

DIMENSION	
	44 x 44 x 29 mm

WEIGHT	
	65 g

PROTECTION DEGREE	
	IP 54

ICETAG CUBE Reader

RADIO		
Frequency:	2.4 GHz
Standard:	IEEE 802.15.4
Power:	Programmable up to 4.5 dBm
Reading distance:	100 m in free air

INTERFACE	
	USB-A male

POWER SUPPLY	
	5Vdc by USB, max power consumption 40 mA

WORKING TEMPERATURE	
	-20 / +70 °C

DIMENSION	
	53 x 40 x 20 mm

WEIGHT	
	22 g

PROTECTION DEGREE	
	IP54

TERTIUM
technology