



**> PROCESS GAS
ANALYSIS
SYSTEMS**

sensotran
The safe way to monitor gases



Sensotran has been providing integrated solutions for its customers' various monitoring needs since 1990. The result of this experience was the development of various units for process gas monitoring which, with the design modified to make it suitable for a wide range of users, became standard products within the market. These products are the **SENCOM** compost system, the **SENBIO** biogas system and the **SENEMI** Emissions and Process System. Also available is the **EMIMUE** multiple sampling solution for sampling and conditioning.

All these systems are suitable for use in the various types of companies, from waste and water recovery to the chemical, pharmaceutical and food industries.

	PROBE	SENCOM	SENBIO	SENEMI	EMIMUE
Parameters	O ₂ : 0-25% CO ₂ : 0-5% NH ₃ : 0-300 ppm	CO ₂ : 0-20% O ₂ : 0-25% NH ₃ : 0-1000 ppm	CH ₄ : 0-100% CO ₂ : 0-100% O ₂ : 0-25% H ₂ S: 0-300 ppm	CH ₄ , O ₂ , CO, NO, NO ₂ , HCl, H ₂ S, Cl ₂ , SO ₂ , VOC	
Working Tem.	-25°C a 50°C				
Working RH	0 - 95%	0 - 99%			
Sample Tem.	< 80°C				< 150°C
Particle Filter	√	√	√	√	√
Sintered filter		√	√	√	√
Coalescent Filter		√	√	√	√
Pump	Manual	Automatic (6 l/min)			
Display	LCD	3	2x8 characters	Touch screen	
Power Supply	Lithium battery	220 VAC - 50 Hz			

SENCOM



SENCOM is a system for monitoring the main gases (CO_2 , O_2 and optionally NH_3) produced in the process of the aerobic breakdown of organic material in the maturation tunnels of composting plants.

Comprising a conditioning and treatment system for reducing the sample temperature and the removal of condensates, a non-dispersive infrared sensor for monitoring carbon dioxide and high precision sensors for measuring oxygen and ammonium up to 1000 ppm in this latter case.

The concentration of oxygen in compost piles is one of the parameters governing aerobic fermentation during the maturation process in organic materials. The O_2 levels will determine that the chemical reactions are correct.

MANUAL PROBE

The manual probe for compost piles is fitted with an oxygen meter for measuring oxygen within the piles.



Length: 150 cm

Material: Stainless Steel

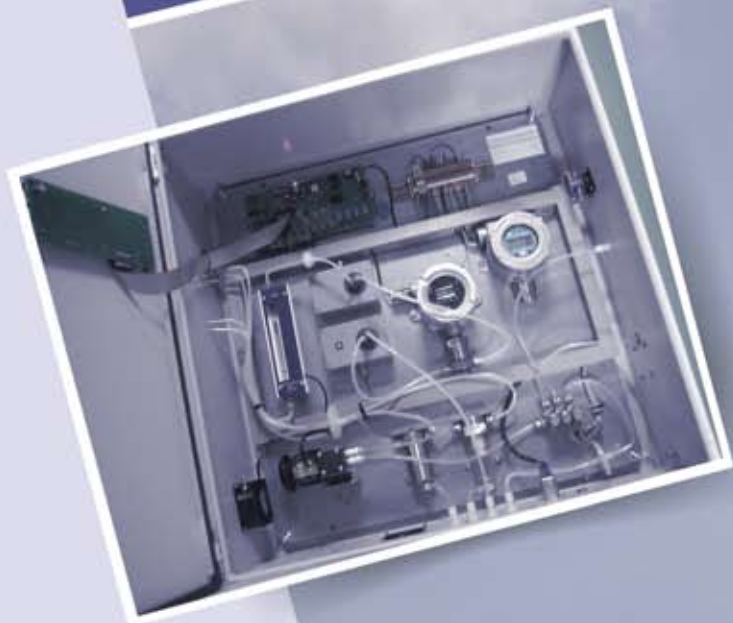
Weight: 980 gr

APPLICATIONS

- > **Laboratory Processes**
- > **Pilot Plants**
- > **Agriculture**
- > **Composting**
- > **Waste Water Treatment Plants**



SENBIO



Sistema de análisis de biogás for monitoring CH_4 , CO_2 , O_2 and H_2S , using a system of sampling and conditioning for the elimination of condensates. The use of non-dispersive infrared sensors allows the monitoring of CH_4 and CO_2 , while high precision electrochemical sensors monitor O_2 and H_2S .

The **CPU** handles the readings from each sensor and activates alarms when the preprogrammed thresholds are exceeded, so that intervention plans can be activated.

An **explosive atmosphere detector** is included inside the cabinet to ensure that the system will be disconnected from the supply in the case of any small leak before a dangerous atmosphere is created.



APPLICATIONS

- > **Waste Dumps**
- > **Biomethanisation Plants**
- > **Anaerobic Digestion**
- > **Waste Water Treatment**

SENEMI



The **SENEMI** platform groups together the various units for the control of emissions and processes, each one designed and manufactured according to the needs and specifications of each customer, to analyse gas samples extracted from and treated by the actual system.

SENEMI systems incorporate sensors using various monitoring principles such as **electrochemical**, **infrared**, **photoionization (PID)** and **catalytic sensors**, depending on the gas to be analysed.

The system has a built-in **PLC** and **touch screen** for programming and managing **solenoid valves** and **output manoeuvres**, with logging of gas concentrations, history (graphics and lists) as well as **synoptics**.

APPLICATIONS

- > **Gas analysis in pipelines**
- > **Monitoring and analysis of gases in scrubbers and chimneys**
- > **Monitoring and analysis of gases in laboratory processes**
- > **Multipoint monitoring and analysis of gases in the environment**

EMIMUE

Sampling and treatment of the latter for gas measurement applications. With 4 available models with 1 to 4 independent channels, it is possible to take samples from various points and to perform the analysis using the optional sensors.

	EMIMUE 1	EMIMUE 2	EMIMUE 3	EMIMUE 4
Sensors	1	3	3	4
Monitoring Panel		1	1	



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