



Preventive and simultaneous controlofCO2andH2Sproduction is carried out using Ctrl-Ferm, an innovative system patented by AEB ENGINEERING for the measurement and monitoring of fermentation processes. With Ctrl-Ferm, winemakers can take preventive action by detecting H2S before it is picked up by the senses, thus enabling better nutrient influx management.



AEB ENGINEERING: THE HIGHEST QUALITY AND RELIABILITY

Like all our systems, **Ctrl-Ferm** is manufactured by our **AEB ENGINEERING division**, which guarantees the highest quality and reliability of AEB technologies by means of **100% in-house**, **on-site production**. The uniqueness of **AEB ENGINEERING** lies in the unwavering **support by our technicians**, both during installation and after-sales. For an unparalleled service that is flexible and tailored to the customer needs.



THE MAIN SOURCES OF H₂S IN FERMENTATION

Alcoholic fermentation in musts is a complicated process that requires careful and balanced nutrition of yeasts. Harvest year, terroir, cultivar, ADY kinetics and vinification technology all affect the nutritional requirements of yeasts, with risks including slow fermentation, stuck fermentation or the emergence of unpleasant odours. In addition, errors in must sulphiting or poor management of O2 input in the initial stages of fermentation may compromise the final product. The emergence of H2S indicates when the addition of nutrients is required in order to prevent the off-flavour effect, and thus improving wine quality.

Preventive and simultaneous control of CO2 and H2S production is carried out using **Ctrl-Ferm**, a **system patented** by our group for the measurement and monitoring of fermentation processes.



OPERATION

Ctrl-Ferm operates in a very simple manner - once the detector is positioned in the tank, the system begins to suck in gas and, via a number of sensor cells, a graph of the detected quantities of CO2 and H2S is plotted, which can be viewed by winemakers using an online dashboard, or even remotely on their smartphones.







TWO CTRL-FERM MODELS ARE AVAILABLE **DEPENDING ON CELLAR REQUIREMENTS:**

- for the control of **1 single tank**;
- for the simultaneous control of 5 tanks.

COMPONENTS

CTRL-FERM CONSISTS OF THE FOLLOWING:

GAS SUCTION PIPE

To suck in the gas that accumulates in the upper portion of the fermentation tank. This manifold rests on the upper lid of the tank.

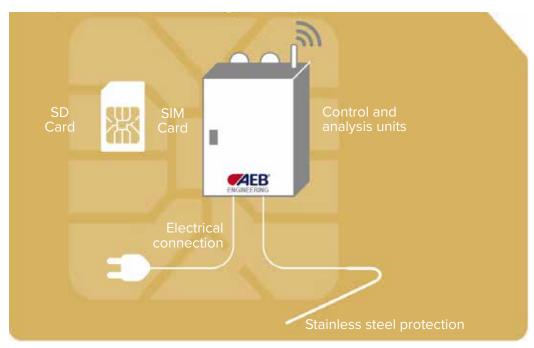
TWO GAS SENSORS

One for the detection of CO2 and the other for the detection of H₂S, specifically configured.

CONTROL UNIT

Connected to a server via a data SIM communication system to monitor gas production.

SD CARD.



CTRL-FERM OPERATING DIAGRAM

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