Biogas Determination

Determination of anaerobic degradation processes: biogas determination

OxiTop® Control AN6/AN12

Anaerobic degradation processes take place in the absence of oxygen. A septum sealed bottle nozzle fills the head space above the sample with inert gas. When anaerobic degradation has taken place, the dissolved CO_2 can be driven off and then removed from the head space by means of a CO_2 absorber. The resulting pressure difference is proportional to the CO_2 concentration; the remaining overpressure is proportional to the methane concentration.

The degradation process can be conveniently observed in the "pressure" operating mode.

Determination of the Respiration Rate

Microbiological growth and stress investigations: determination of the respiration rate (aerobic/anaerobic measurements)

OxiTop® Control AN6/AN12

OxiTop® Control A6/A12

The use of special measuring bottles with a septum sealed nozzle allows the interference-free addition of substrates and solutions.

Pressure alterations could indicate a reduction in oxygen concentration, which could necessitate the addition of oxygen, air, or other gases.

It is possible to set a "warning pressure" or a pressure limit so adjustments can be made.

The momentary pressure can be stored so the adjustments are fully documented. The recording of these measured values (max. 10 values) permits long-term measurement.

Ordering Information

Model	Complete packages for microbiology	Order No.
OxiTop® Control AN6	Package for aerobic or anaerobic applications with 6 x 1000 ml measuring units	208 225
OxiTop® Control AN12	Package for aerobic or anaerobic applications with 12 x 250 ml measuring units	208 227
Model	Complete packages for aerobic measurements	Order No.
OxiTop® Control A6	Package for aerobic applications with 6 x 1000 ml measuring units	208 220
OxiTop® Control A12	Package for aerobic applications with 12 x 250 ml measuring units	208 222