

**aseko**

Aseko Gas Analysers



AIR LF is a specialized version of an infrared analyser of the AIR series, intended for analysis of landfill gases and biogas. For this purpose it is equipped for measurement of methane, carbon dioxide and oxygen concentrations and optionally it may be complemented with sulfane measurement which is limited to concentrations up to 2000 ppm. In order to keep the operation life of the H2S sensor, its measuring is started in adjustable intervals or by a push-button and lasts only 3 minutes. The methane and carbon dioxide measuring is based on the infrared principle, for oxygen and sulfane the electrochemical sensors are used.

The analyser is delivered in the portable, desktop, wall-mount or 19" design. The analysed gas is sucked-in either directly or via manual probe (portable design). Solid particles are filtered-off before the analysis itself. The portable version is provided with an accumulator enabling operation independent of electric network for a period of approx. 6 hours.

The analysers are provided with a number of functions increasing the user's comfort. As a matter of course these facilities include the concentration units selection, storage of the measured values into memory at optional intervals and the possibility of the data transmission via RS485 serial line.

The use of the semiconducting IR sensors means the absence of moving parts and thus higher reliability of the analysers as well as their favourable price, all it with the maintenance of the user's friendliness and low aintenance and recalibration costs.

Landfill gas and biogas analyser

**AIR LF****Technical characteristics**

Measured gases	CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> S	
Measuring principle	methane, carbon dioxid	infrared
	Oxygen, sulphane	electrochemical
Measuring range	methane	0 - 100 %
	carbon dioxid	0 - 100 %
	oxygen	0 - 21 %
	sulphane	0 - 2000 ppm
Display	four-line, illuminated	
Repeatability	2% F.S.	
Rise time	20 minutes	
90% response time	max. 40 s	
Climatic resistance	0 to 40 °C, 90% rel.h.	
Service life of the sensors (years)	Infrared min. 4, oxygen 4, sulphane 2	
Power supply	230 V, 50 Hz, (accumulator)	
Output	4-20 mA, RS 485	
Size (h x w x d, mm)	500 x 400 x 155, portable 185 x 330 x 350	
Weight (kg)	10, portable 5	