K.A.T. BIO-030
Stationary Biogas Analyzer

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Application:	**The Biogas Analyzer is designed to measure the concentration of gases in biogas plants, sewage treatment plants, and during biomass gasification process.** Additionally it can be used in the petrochemical and chemical industries, for monitoring of gas emission and gas purity. K.A.T. BIO-030 is also applicable in laboratories for the synthesis of gas mixtures and for measuring of gas concentration. **For request it is possible to analyze additional gases.**
Technical parameters:	**CH4 (0 2%: 5%: 100% vol) dual NDIR measurement** Temperature range from -20^{0}C to +55^{0}C ATEX II 2G Ex d IIC Gb from -20^{0}C to +55^{0}C IECEx Ex d IIC Gb from -20^{0}C to +55^{0}C CSA-107498 UL-E186043 Reference measurement, possibility of automatic calibration. **CO2 (0 2%: 5%: 100% vol) NDIR measurement** Temperature range from -20^{0}C to +55^{0}C ATEX II 2G Ex d IIC Gb from -20^{0}C to +55^{0}C IECEx Ex d IIC Gb from -20^{0}C to +55^{0}C CSA-107498 UL-E186043 Reference measurement, possibility of automatic calibration. **H2S (electrochemical)** Measurement range 0-100: 200: 1000: 2000 ppm Temperature range from -20^{0}C to +50^{0}C Sira 01ATEX1073U
Gas flow:	from 500ml/min to 1000ml/min
Operating temperature:	5^{0}C to 40^{0}C is in standard.

	The cabinet equipped with ventilation and heating systems is **optional**.
Preparation of gas sample:	➢ Gas filter ➢ Easy service
Input / Output:	➢ 1 biogas measuring track (**optional** - additional measuring tracks) ➢ 1 x RS 485 (Modbus-RTU) ➢ 1 x RJ45 Ethernet (Modbus TCP) ➢ Gas concentration data: 1 x (PROFIBUS DP - option) ➢ 3 digital outputs 24V NO/NC ➢ 3 digital inputs 24V DC ➢ 230V AC/50Hz ➢ Connection diameter 6/4mm process gas inlet ➢ Connection diameter 6/4mm calibration ports ➢ Connection diameter 6/4mm process gas outlet
Measuring and analysis system with LCD touch panel:	PLC with expansion modules of inputs and outputs Integrated LCD 7" Touch Panel with RS232/485/Ethernet, ATEX Marking: Ex II 3 G. Software allows for: ➢ Automatic calibration and zeroing the analyzer ➢ Control the operation of the analyzer's components ➢ Atmospheric pressure compensation ➢ Temperature compensation ➢ Emergency warning ➢ Data and parameters input by the User ➢ Login and access levels ➢ Remote control and control via SCADA system (RS485 / Ethernet interface) ➢ Setting of alarm thresholds for 3 measurement gases ➢ Automatic taking gas samples from the measuring track (**optional** - additional measuring tracks) ➢ Possibility to add additional procedures at the User's request (**optional**)
Cabinet:	Cabinet is made of glass-fiber reinforced polyester. Application: sea and coastal conditions, water treatment plants, wastewater treatment plants, petrochemicals, paper mills and wherever the metal housing is at risk of corrosion. Polyester cabinet is used for built-in controls for electrics and electronics. **IP65** **PN-IEC 439-1**
Dimensions:	Height: 650 mm Depth: 260 mm Width: 540 mm
Power supply:	230 V AC/50Hz Power consumption: 120-200W