

Biogas energy and gas analysis meter

Measurements monitoring system for energy, pressure, temperature, flow, net calorific value, and gas analysis on biogas application



MARKET

Biogas plant, landfill:
Biogas collection, Biogas flares, Biogas engine

CUSTOMERS

More than one hundred sets already delivered to:
EDF, Veolia, Engie, Sita, Viria, Semavert, Cefit, Eneria, Biome, Verdesis, Dalkia.

ADVANTAGES

ALL IN ONE MONITORING SYSTEM

- This system measures and calculates flow, temperature, absolute pressure, energy and gas analysis
- Biogas plant energy efficiency calculation
- One biogas energy meter could be used for multiple areas

FULL TRACEABILITY

- Instrumentation lifecycle and maintenance operation tracking
- Measurement file storage on USB memory
- Alarms
- Easy navigation and set-up from the touch panel
- M2M remote access (optional)

ACCURATE AND RELIABLE MEASUREMENT

- High quality products, hardware and software
- Our measurement technology has been approved by national independent company
- All instruments are ATEX compliant
- Continuous gas analysis for accurate energy Measurement, process control & safety Automatic calibration function



TECHNICAL SPECIFICATIONS



Measurements monitoring	energy, pressure, temperature and flow from multiple areas: recovery and flaring (Biogas collection, Biogas flares, Biogas engine)
Calculation	flared volume and valued volume
Data Display on touch panel including	<ul style="list-style-type: none"> corrected instantaneous flow in Nm³/h temperature °C absolute pressure daily, monthly valuation and annual totalized in Nm³ manual input rate of CH₄ or external analyser measurement daily, monthly valuation and annual summed Nm³ reduced flow to 50% of CH₄
Calculating the landfill site efficiency rate	
Edit and export reports. Data storage	
Modbus Communication ... (others communications bus as an option)	
4-20 mA analog output for transmitting data to an external system	
Gas analyser monitoring (CH ₄ , H ₂ S, CO ₂ , O ₂)	
Optional flowmeter back-purge system in case of dirty biogas	
Optional frost protection system for use in cold outdoor environment	

SYSTEM ARCHITECTURE

