

LEDCLIPS

Low cost CO2 -CH4 Gas sensor for Biogas Plants BIOGAS MONITORING

INFORMATIONS

MARKET

- Industry
- Environment
- Automotive

APPLICATIONS

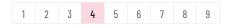
- Biogas plants monitoring
- · Air quality monitoring
- Detection and quantification of gas pollutants exhaust for car manufacturers

INTELLECTUAL PROPERTY

Brevet

TRL LEVEL

• Validation of the technology in laboratory environment



PARTNERSHIP

Co-maturation / Licence

LABO / RESEARCH INSTITUTION

- IES
- Université de Montpellier

■ REF. 0323-V1

TECHNOLOGY DESCRIPTION

LedClips is a CO2-CH4 monitoring systems suited for biogas applications operating on the low cost yet efficient QEPAS- LED technology that guaranty accuracy, long-term stability and low cross sensitivity

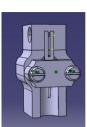
KEY FEATURES:

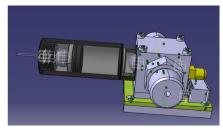
- Technology QEPAS LED
- Time response 1s
- Fitted directly on the engine and in particular on the gas supply pipe
- Electronic not in contact with the gas
- Electronic ATEX compliant
- Low cost

DEVELOPMENT STAGES

Prototype opérationnel







		Valeur	Temps d'intégration
CH4	LOD	0,17%	204s
Setup 1	Seuil %	1%	5s
CO2	LOD	0,18%	140s
Setup 1	Seuil %	1%	5s
CO2	LOD	0,25%	60s
Proto1	Seuil %	1%	3s

COMPETITIVES ADVANTAGES

- Time response
- Electronic circuits not in contact with the gas
- Electronic circuits compliant with ATEX European directive ATEX 94/9/EC
- Low cost
- Continuous mode operation



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