

Your Applications



industrial internet

- measurement of CO₂ concentration during foods and beverages production
- CO₂ emission control in agriculture & farming
- CO₂ emission control in refrigeration and cooling
- quantification of liquid CO₂ used as solvent in pharmacy, chemical processing
- welding control in automotive industry
- methane concentration control in natural gas, oil extraction fields, coal mines
- methane concentration control in biogas production plants
- methane emission control of agricultural objects
- plastic thickness measurement
- paper moisture control
- moisture control of wood, constructional materials
- moisture control of agricultural products
- water in oil and oil in water quantification in cut-oil/oil products
- definition of ratio of light and heavy hydrocarbons



smart city

- environmental CO₂ concentration monitoring
- CO₂ emission control in HVAC systems
- methane concentration monitoring along the pipelines, local gas networks
- methane leakage monitoring in gas filling stations



smart home

- measurement of CO₂ concentration indoors
- methane emissions control in household applications



connected car

- engine combustion control
- measurement of CO₂ concentration in car cabin
- methane leakage monitoring in vehicles running on gas fuel
- quantification of water in fuel



intelligent shopping

- express analysis of food – defining correspondence with required parameters, (for example, measurement of water, fat, proteins content in milk)

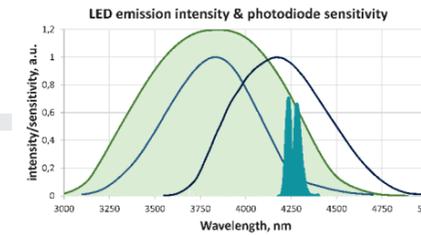


healthcare & wearables

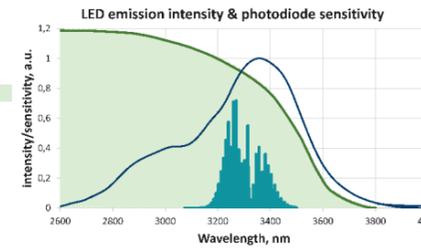
- capnography (CO₂ concentration measurement in breathed out air)
- methane concentration measurement in gastrointestinal treatment
- analysis of biomaterials for medical purposes – concentration of sugar in blood, urine, etc. (for example, for remote patient monitoring)
- analysis of alcohol in breath

Our solutions

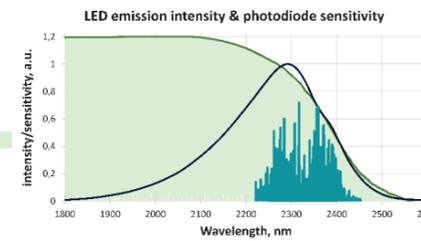
CO₂



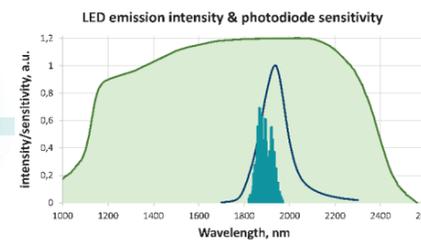
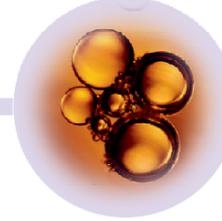
CH₄ & HCs



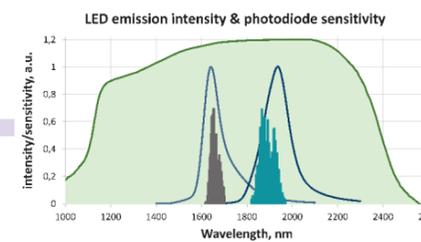
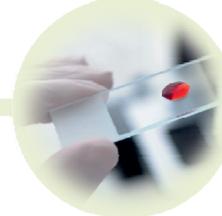
moisture



oil + water



other



CO₂ sensor prototype (under development)



Evaluation kits and systems



MDS-4 methane sensor module



LA-1T LED Analyser prototype



Custom designed LED Analyser

LED-PD optopairs



LED array & PD

