

Mobile performance analysis DYNOSTICS



for building services, sports, medical technology

Technology field

MCR technology, gas analysis

Project requirements

The **project objective** was the development of a compact, portable, battery-operated performance diagnostic system for measuring CO₂, O₂, humidity, pressure and temperature in breathing gas. The measured data serve as a basis for a training recommendation for the athlete.

The performance diagnostics should be fast, continuous and flexible (indoor and outdoor).

Facts/Highlights

- First mobile applicable system on the market
- Communication via radio with Handy App
- App with trainer and comparison functions
- Measurement data storage in the cloud
- Wear-free measurement technology
- No medical expertise necessary

Services of KNESTEL

Potential analysis, target price estimation, project management, specifications, project planning, development of software and hardware, electrical and mechanical design, EMC test, prototyping, series production

Possible Applications

- Respiratory gas analysis of animals
- CO₂/O₂ measurement in ventilation systems/rooms/building services
- Respiratory gas analysis of people in medicine to detect diseases

About KNESTEL: Knestel has been developing and producing customized electronic and mechatronic special solutions in the fields of motor and machine control, frequency converters, image processing, MCR technology, software development, radio, bus systems and gas analysis for 40 years. We support our customers from the idea to the finished implementation. Individual solutions and concepts - technically up to date. Our production - electronics manufacturing, device and switch cabinet construction, Production of subassemblies, assembly and mechanical processing - is equipped with the latest technology.

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