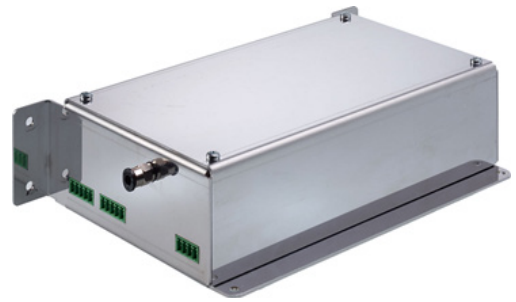


## **Monitoring of suction and filling when filling breathing gas cylinders**



**for medical technology, MCR technology, gas analysis**

### **Technology field**

MCR technology, gas analysis

### **Project requirements**

The **project objective** was the simultaneous monitoring of pollutants, oil residues, combustible gases and the water content of the air. The gases can be measured both in the intake air and in the compressed filling air. In conjunction with other **KNESTEL** products for compressor and level control, a solution for high-quality filling is created.

### **Facts/Highlights**

- Analysis of gases via a bypass
- Gas components can be measured simultaneously (CO, CO<sub>2</sub>, O<sub>2</sub>, SO<sub>2</sub>, NO, H<sub>2</sub>O and oil)
- Monitoring limit values by selecting the appropriate standard (via HMI)
- Isolated CAN bus for data exchange with keypad, level control and compressor control

### **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**

- Monitoring the filling air of breathing gas cylinders for divers, fire-fighters, medical technicians and pilots of supersonic aircraft
- Room air monitoring (for example in laboratories)

**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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