

Fast Facts

AdBlue Quality Sensor

Using special optical techniques, AB Elektronik Sachsen's sensor is capable of detecting variances in urea concentration as small as +/- 1 % (2 %) and can operate at temperatures from -10 degC to +85 degC.

The optical measurement principle is robust against dirt, bubbles and moving fluids including gasoline, diesel or coolant.

Quality sensors help to measure the concentration and ratios in different liquids using an optical measuring principle. This sensor can be used in multiple applications and is prepared to be integrated into subsystems like tank sender units, supply modules or tubes.



- Measuring urea concentration
- Concentration ratio of different liquids
- Wear-free
- Accuracy: +/- 1 % (concentration of urea in water, after life 2 %)
- Measurement range: 0 % - 50 % (urea in water)
- Function: -10 °C to +85 °C (usage range -40.....85 °C)
- Signal output: PWM / SENT / CAN (J1939)
- Optical measuring principle
- Tank assembly, frost-resistant
- Temperature signal available
- Different mounting positions possible

Typical applications

This sensor solution enables continuous measurement of AdBlue® / DEF-quality (proportion of urea in the solution or wrong medium). On-Tank / In-Tank or inline mounting possible.

Special features

Optical principle • monolithic plastic housing • resistant against freezing and pollution

Emission exhaust-gas-technology is one of our core competence and we have several years of experience in mass production for EURO4 and EURO5 as well as Tier4i and f engines. Today we are contributing this experience to the EURO6 projects and together with our customers, designing reliable, sturdy solutions for the next generation of environmentally friendly exhaust systems. Products like high-temperature sensors with integrated electronic, freeze protected pressure sensors and AdBlue Quality sensors are invariably powerful and provide excellent cost-benefit ratios, which are dedicated to the applications of leading OEM's in transportation segment.

