

AKKA

PASSION FOR
TECHNOLOGIES



SPECIAL AND VEHICLE MEASURING TECHNOLOGY

YOUR MEASURING TECHNOLOGY
EXPERT IN FATIGUE STRENGTH

Gathering all relevant fatigue data is fundamental for the validation of vehicles and their components. At AKKA measuring and test technology is part of our core expertise. In the field of special and vehicle measuring technology, our experienced employees look after the planning, setup and operation of requested measuring activities. Whether individual components or full vehicles, we are your flexible and expert partner for all aspects of measuring technology – from providing the measuring setups through to extensive measuring campaigns.

To meet our customer's requirement, we rely on an extensive repertoire of measuring sensors. Not only do we have a large number of different sensors for recording all relevant physical parameters (temperature, pressure, distance, stress, etc.), we also possess far-reaching experience in the complex topic of strain gauges.

Whether nationally or internationally – we accompany the use of measuring technology on-site so as to guarantee the project runs smoothly. Optionally, our company's own test track in Papenburg is available for conducting tests.

OUR ADDED VALUE

- Complete package from the application, calibration and performance of the tests, through to evaluation and assessment of the results
- Transfer of real measurement data to test stand programs and subsequent test bench trial in house (Q4/2016)
- Constant traceability of the measurement results through standardised documentation management
- Shortening of the development time through accelerated testing
- Efficiency and cost optimisation: Complete performance range of measuring technology from a single source



Automotive



Aerospace



Railway



Energy



Life Sciences



Telecoms



Space



Services and
Informations Systems



Defence



Oil and Gas



Consulting



SERVICES TO YOUR ADVANCE

- Application of strain gauges
- Construction and operation of vehicles to validate components with respect to their fatigue strength
- Measurement of mechanical parameters on all kinds of components in the vehicle
- Measuring driving loads using measuring wheels
- Duty cycle/target cycle recording
- Measuring parameter calibrations
- Documentation of the setup and the measurements
- Plausibility checks of the measurement results
- Testing, analysis and evaluation of the measurement data
- Test evaluation
- Damage and intrinsic stress analyses
- Validation of design specifications, component failure
- Generation of accelerated driving programs or test stand runs
- Hexapod and multi-channel test area (ready for use from Q4/2016 onwards)

EXPERTISE

- Many years of experience with equipping test vehicles, operating trial vehicles and carrying out test stand measurements
- Pronounced expertise in the area of strain gauge measuring technology – from selection of the correct application and circuit technology through to calibration and validation of the measuring results
- Extensive experience in testing – from preparing the scope of the test and defining the test schedules through to performing the tests and evaluating the results
- Evaluation of the generated data using software tools developed in house

