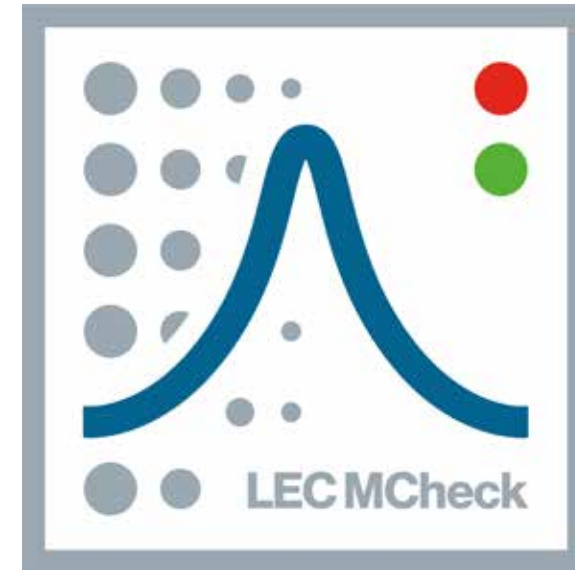




The Large Engines Competence Center



The Large Engines Competence Center, LEC for short, is one of the world's leading research institutions for sustainable large engine technologies and develops innovative solutions for green energy and transportation systems. Since 2015, the LEC is a funded COMET K1-Center. As a pioneer in climate-friendly innovation and virtual development, the center serves as a global innovation hub for sustainable, environmentally sound transportation and power generation systems for a rapid and economically feasible transition from today's conventional systems to systems with a zero carbon footprint. With its research, a globally unique infrastructure and a large international partner network, it contributes significantly to global decarbonization and massive emission reductions. The research focus is on the use of renewable energies (green e-fuels such as hydrogen, ammonia, methanol, etc.), digital technologies and overall system optimization.



LEC GmbH

S Inffeldgasse 19
A 8010 Graz, Austria

T +43 (316) 873-30101
F +43 (316) 873-30102

M office@lec.tugraz.at
W www.lec.at

Evolutionary Engine Technologies for a Sustainable Tomorrow










LEC MCheck

SOFTWARE FOR MEASUREMENT QUALITY CHECKS AND FAULT DIAGNOSIS

LEC MCheck is an innovative software for the diagnosis of sensor faults on test beds with changing test carriers, such as engine test beds. LEC MCheck detects faulty measurements at an early stage and is able to identify faulty sensors, which not only improves the quality of the measured data but also increases the efficiency of the test bed.

LEC MCheck Key Features

-  Automated system for measurement data plausibility check and error detection of measured values
-  Verification of the measurement data quality by means of different physical and statistical methods
-  Identification of the faulty sensor
-  Use of thermodynamic correlations of different measured values for plausibility check of a measuring point
-  Automatic generation of data-based models
-  Dynamic determination of confidence intervals and limit values for plausibility criteria
-  Determination of the monitoring quality

