Are you already familiar with our industrial-grade accredited inspection services?

- Accredited laboratory in line with DIN EN ISO / IEC 17025, to qualify and validate new non-destructive testing (NDT) processes for industrial applications
- Accelerated time-to-market and opportunity for qualified, norm-compliant deployment in industrial applications as well as for new in-house developments or custom adaptation of innovative NDT technologies, even in fields where norms have not been established
- Certification of the corresponding quality management system in accordance with DIN EN ISO 9001
Realization

The basic version of the inspECT eddy current testing board comprises all necessary components of an all-purpose eddy current testing system. The inspECT board is able to operate in single- or multi-frequency multiplex mode, in sensor multiplex mode or in combination of both procedures. The main features are

- Single- or multi-frequency operation with up to 16 testing frequencies from 100 Hz up to 10 MHz
- Multiplex sensor operation with up to 16 sensors realized by external multiplexer which also enables flexible positioning of the sensor-near electronics including far reaching testing distances
- Setup of multi-channel systems by cascading multiple inspECT testing boards is guaranteed by the modular customer-adapted concept
- High sample rate: 25,000 samples/s in single-frequency mode, up to 700 samples/s in operation mode at 16 frequencies and/or 16 multiplexed sensors
- Integrated triaxial coordinate interface (optional with differential receiver)
- Real-time accessible inputs and outputs for process control
- High-performance hardware enables signal processing in real-time already on the inspECT board
- High-performance software with integrated regression analysis

Applications

- Mobile eddy current testing system realized inside a rugged industrial notebook with IP65 protection class
- OEM kit – comprising inspECT board, backplane, power supply, coordinate interface and multiplexer – for integration in customer systems
- Compact eddy current system with external input device for industrial use with IP65 protection class
- Integration of any customer-adapted inspection electronics into customer systems