

# MIG16 SFE

EARLY FAILURE DETECTION



## Maximum control, minimal costs

Long-term performance and durability testing engines and transmissions are subjected to harsh conditions - a reliable fault detection system is indispensable. The fact is, red-ant MIG16 SFE has been the front runner since 2006 - in every company internal side-by-side comparison in terms of performance and efficiency. MIG16 SFE is the choice, again and again.

MIG16 SFE monitors durability testing of engines and transmissions – 24 hours a day, 7 days a week. MIG16 SFE measures structure-borne noise and torsional vibrations of the test specimen and compares the data with multiple learned limit values with regards to current operating load. MIG16 SFE detects all damage, providing a shut-down alarm to the test stand if further operation is at risk from the detected physical damage.

Protect your expensive test specimen from collateral damage and get definitive information regarding root cause and propagation of damage.

### MIG16 SFE recognizes:

- > Gear tooth damage (pitting, cracks, chips, breaks)
- > Bearing damage (sleeve and roller bearings)
- > Engine component failures (valve springs, big end bearings, piston, piston rings, cylinder, turbo charger)
- > Wear
- > Shift noise

### Product advantages

- > Early detection protects prototypes
- > Interruption-free monitoring of durability testing (24/7)
- > Documentation of the complete test process
- > Clear analysis of failure causes and propagation
- > Highly skilled experts not needed for effective operation
- > Self-learning process allows quick test setup and completion



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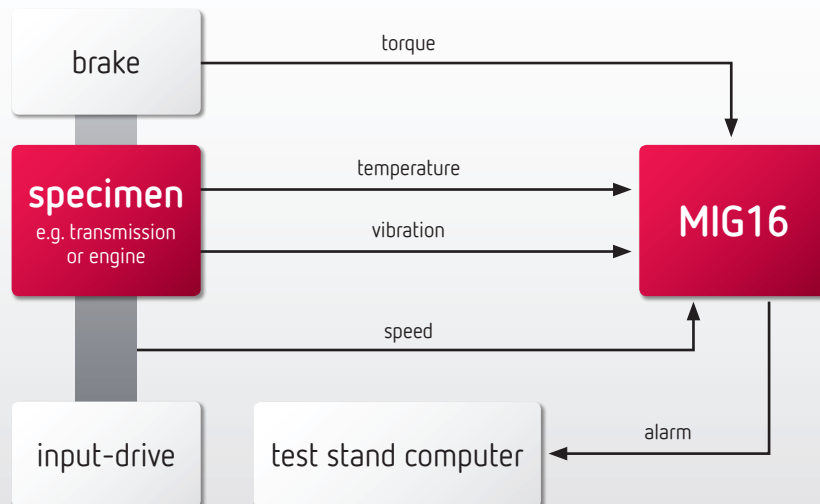
## Characteristics

- > Highly flexible application for testing engines, transmissions, axles, hybrid power trains, turbochargers and wind-turbines
- > Multi-channel 24-bit data acquisition and logging
- > Calculation of damage-relevant indicators (high resolution order analysis, short-term effective value, rotary oscillation)
- > Logical post-processing of pre-alarms eliminates false alarms
- > Integral report generator delivers rapid evaluations

## Characteristics of MIG16 SFE light

- > Up to 40% price advantage against comparable systems\*
- > 4 channels NVH data acquisition
- > Ideal for smaller applications
- > Simple report generator for rapid evaluations

## Typical configuration of MIG16 SFE



Based in Munich Germany with technical representatives worldwide, red-ant is a competent partner for complete vibration analysis solutions. Our product and service portfolio encompasses optimally tailored measurement technology and specialist services for applications in automotive manufacturing and machinery construction. Over 120 satisfied industry customers around the world utilize the high-precision red-ant systems for early failure detection and quality assurance.

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