



*Instrumentation and sensors for the conditioning, measurement and display of rpm and speed signals. Versatile applications in stationary and mobile operation. Reliable acquisition of unstable and noisy signals. Used with any type of transducer. Non-linear filter for the suppression of interference. Automatic tracking of the trigger level. Increased reliability of the test data due to the reduction of signal dropouts.*

## 9009/9019 TACHOMETER

■ Universal instruments for the measurement of engine and vehicle speed in stationary or mobile applications. Reliable conditioning of the input signal. Selectable frequency divider and multiplier. Fast time-interval measurement. Outputs pulse, DC and digital. Compact instrument type 9019. Variety of options.

## 4614 MODULATOR

■ Plug-in for the conditioning and display of rpm and speed signals. Modular design for the application with telemetry or multi-channel equipment. Programmable frequency divider and multiplier. Output pulse and telemetry signal.

## 5410 TACH CONDITIONER

■ Software-programmable module for the conditioning of any periodic signal. Input for active and passive transducers. Pulse output. Simple operation.

## 5633 TACH CONDITIONER

■ Dual channel conditioner for engine and speed signals. Manually programmable frequency divider and multiplier. Input with supply voltage for active and passive transducers. Pulse output. Simple operation without software.



Modular rpm signal conditioners

## 4610/9010/9010D READOUT

■ Analog and digital readout for rpm and speed. Excellent trend readout with analog instruments; good accuracy and small dimensions with digital readout. Input conditioned pulse. Used with all signal conditioners and telemetry instruments.

## TRANSDUCERS FOR ENGINE RPM, SPEED AND OTHER DATA

■ Reflex light barriers with glass fibre probe for rpm measurement and status sensing. High upper frequency limit. Immune to other light sources. Simple installation and wide variety of accessories. ■ Eddy-current transducer for sensing rotational parts with increased temperature range. ■ Inductive clamp and toroidal coil for sensing the ignition signal. Robust design for the use on primary or secondary side. ■ Laser reflex sensors for the acquisition of distance or position markers and speed. Short switching delay and wide operating distance. Large variety of accessories. ■ Sensors for speed and distance based on correlation. Microwave speed sensor for on-board use. ■ Sensors for the acquisition of the pedal pressure or the position of the pedal.



Sensors for rpm, speed and other data