

Trigger and Timing Board (E-TR)

This board provides the central time base for all measurement channels and also contains an input for external start signals (8-pin Lemosa, connector compatible with speed board).

- ▶ Monitoring of operating voltages
- ▶ LED for input
- ▶ Triggering by means of 32-bit DSP, firmware in RAM

Rotational Speed Board (E-DR)

These boards measure the periodic times of digital speed signals. One board is required per speed signal. Many boards are synchronised by the trigger board.

- ▶ Single-channel, 8-pin Lemosa connector
- ▶ 10 GHz (100 psec) counter/timer
- ▶ 40-bit counter size
- ▶ TTL-level input signals, voltage overload protection ± 40 V
- ▶ Input frequency range from 0.01 Hz to 1 MHz
- ▶ Input for rotational direction
- ▶ 2 additional digital inputs
- ▶ Provides sensor supply voltages
- ▶ Start/Stop triggering on speed threshold or gradient
- ▶ LEDs for inputs
- ▶ Signal pre-processing by means of 32-bit DSP. Firmware in RAM

8-channel Analogue Board (E-AN)

These boards are designed for analogue sampling of the input signal. The trigger board ensures synchronisation of analogue and speed measurements.

- ▶ Eight channels, SMB connectors
- ▶ 50 kHz sampling rate per channel
- ▶ 16-bit resolution
- ▶ Input signals ± 10 V, differential or current source
- ▶ Voltage overload protection ± 500 V
- ▶ Input impedance differential 0.8 MOhm / 150 pF, Common mode 0.25 MOhm / 36pF

- ▶ 10 kHz hardware filter, switchable
- ▶ Separate setting of sampling rate for each channel from 3Hz to 50kHz
- ▶ Programmable amplification 1, 10, 100, 1000
- ▶ AC/DC coupling
- ▶ Start/Stop triggering on level or gradient
- ▶ LED for input voltage overload
- ▶ Signal pre-processing by means of 32-bit DSP. Firmware in RAM

2-channel Analogue Board (E-A2)

These boards are designed for analogue sampling of the input signal. The trigger board ensures synchronisation of analogue and speed measurements.

- ▶ Two channels, SMB connectors
- ▶ 400 kHz sampling rate per channel
- ▶ 16-bit resolution
- ▶ Input signals ± 10 V, differential or current source
- ▶ Voltage overload protection ± 500 V
- ▶ Input impedance differential 107 MOhm / 150 pF, Common mode 0.25 MOhm / 36pF
- ▶ 10 kHz hardware filter, switchable
- ▶ Separate setting of sampling rate for each channel from 3Hz to 400kHz
- ▶ Programmable amplification 1, 10, 100, 1000
- ▶ AC/DC coupling
- ▶ Start/Stop triggering on level gradient
- ▶ LED for input voltage overload
- ▶ Signal pre-processing by means of 32-bit DSP. Firmware in RAM

