

# AKRON & Micro Measurements

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## Short course in strain gauge installation techniques

<b>WHEN</b>	From Tuesday 4 <sup>th</sup> June until Thursday 6 <sup>th</sup> June 2019 included.
<b>WHERE</b>	Boarhouse- Leuven (Heverlee)
<b>PROGRAM</b>	3-day short course, each day from 9 am until 5 pm. This course is suitable for starters, technicians and engineers who want to get standard knowledge of strain gauges or want to refresh their strain gauge knowledge. (reverse side: course details)
<b>LANGUAGE</b>	The course will be led by a senior application engineer from Vishay Micro Measurements in English. Questions can be asked in Dutch, French and English.
<b>PARTICIPATION COST</b>	Full 3 days: € 990 Includes lunches, beverages and all necessary material to participate in the practical exercises.
<b>REGISTRATION</b>	Via bank transfer

**AKRON**

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# DETAILED PROGRAM



## DAY 1 AND 2

08:30 - Reception with coffee

09:00 - Start

- Introduction to Strain Gauges and their terminology.
- The Wheatstone bridge and its use.
- Surface preparation techniques – practical session which includes the bonding of gauges with a cyanoacrylate adhesive.
- Use of other adhesive systems with strain gauges, cold and heat curing epoxies.
- Leadwire attachment techniques followed by a practical session.
- Gauge checkout, background and practical session which involve the testing of gauge installations.
- Selection of leadwires, solders and coatings.
- Other strain gauge/measurement systems.

17:00 - End



## DAY 3

08:30 - Reception with coffee

09:00 - Start

- Instrumentation
  - Multiple Channel Systems.
  - Signal to Noise Ratio.
  - A/D Converters.
  - Dynamic Data Acquisition.
  - Aliasing and Filters.
  - Constant Voltage and Constant Current.
  - Leadwire Effects.
  - Instrument Calibration and Linearity.
- Transducers
  - Basic Wheatstone Bridge.
  - Bending, Tension, Compression, Shear and Torsion Measurements.
  - Materials Choice.
  - Choice of Gauges and Adhesives.
  - Bonding and Wiring.
  - Simple Compensation Techniques.
  - Testing and Protection.
  - Calibration.

17:00 - End