



## Materials Testing

## E19

## Strain Gauge Kit

***Selection of resistance strain gauges and necessary accessories and consumable materials – for use with TecEquipment's SM1010 Digital Strain Display***



- All items compactly housed in a portable case
- Selection of strain gauges
- All expendable items required for cementing gauges included
- Reduced risk of spillage of chemicals
- Refills available (E19a)
- Step-by-step instructions supplied

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- An ISO 9001 certified company

## E19

## Strain Gauge Kit

**Description**

This kit contains a selection of resistance strain gauges, together with all the necessary accessories associated with their application. Each kit is supplied in a PVC carrying case.

The adhesive included is a cyanoacrylate single-agent pressure-sensitive type, and therefore the complete operation of deciding where the gauge is to be placed to taking strain readings can be completed in a few minutes.

Also included are the appropriate cleaning agents, terminal strips and sundry items such as tissues, pressure sensitive tape etc.

Primarily intended as a convenient form of general-purpose kit, it will prove particularly valuable to: (a) the non-specialist, who occasionally applies strain gauge techniques but has not acquired the experience to specify individual items with confidence; (b) the specialist who is required to perform strain analysis outside the laboratory at short notice; and (c) teaching staff in educational establishments required to demonstrate the technique and to construct experimental apparatus.

The quantities of the items in the kit are adequate for the installation of all the strain gauges.

**Standard Features**

- Supplied with comprehensive user guide
- Five-year warranty\*
- Manufactured in accordance with the latest European Union directives

**Recommended Ancillaries**

- Digital Strain Display (SM1010)
- Refill Kit for E19 (E19a)

**Essential Services**

*Electrical supply (for soldering iron):*  
220 VAC to 240 VAC with earth

or

100 VAC to 120 VAC with earth

50 Hz to 60 Hz

(specify on order)

**Operating Conditions**

Well ventilated laboratory environment

*\*Storage temperature range:*

-25°C to +55°C (when packed for transport)

*\*Operating temperature range:*

+5°C to +40°C

*Operating relative humidity range:*

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

*\*Note:* The adhesive and other chemicals are best used and stored in cool conditions (room temperature in use and stored at between 2°C and 7°C). Long exposure to lower or higher temperatures will reduce their shelf life - typically one year.

**Specifications**

*Nett dimensions and weight*

460 mm x 340 mm x 160 mm and 2.3 kg

*Approximate packed dimensions*

0.025 m<sup>3</sup> and 4.3 kg

*Contents*

30 bonded resistance strain gauges

1 mounting panel

1 bottle cyanoacrylate adhesive

1 bottle solvent

1 4H pencil and 1 ballpoint pen

1 bottle acid cleaner and 1 bottle neutralising cleaner

1 pack adhesive rubber strips

1 coil brown wire and 1 coil green wire

1 set terminal tags

1 pair tweezers

1 soldering iron and 1 coil solder

1 pair scissors

1 magnifier

1 roll clear adhesive tape

2 dissecting needles

1 pack tissues

1 pair wire strippers

1 pack cotton applicators

1 pack abrasive paper

1 instruction manual

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