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The red crosshairs move on the scale as the crack widens 11 ELECTRICAL STRAIN GAUGE • When an electrical wire is stretched within the limits of its elasticity such that it does not break or permanently deform, it will become narrower and longer, changes that increase its electrical resistance end- to-end.. DEFINITION • A strain gauge is an example of passive transducer that converts a mechanical displacement into a change of resistance.

7 WORKING • The sensitivity of a strain gauge is described in terms of a characteristic called the gauge factor, defined as unit change in resistance per unit change in length, or • Gauge factor is related to Poisson's ratio μ by, $K=1+2\mu$ 8.. • Early 1930s : Charles Kearns made the first notable use of bonded resistance strain gauges to measure vibratory strains in high performance propeller blades.. 5 STRUCTURE • The majority of strain gauges are foil types, available in a wide choice of shapes and sizes to suit a variety of applications.

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TYPES Based on principle of working : • Mechanical • Electrical • Piezoelectric Based on mounting : • Bonded strain gauge • Unbonded strain gauge 9. [download free Avid Pro Tools](#)



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• A strain gauge is a thin, wafer-like device that can be attached to a variety of materials to measure applied strain.. 6 WORKING • The strain gauge is connected into a Wheatstone Bridge circuit The change in resistance is proportional to applied strain and is measured with Wheatstone bridge. [Professor Exchange Programs](#)

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Strain can be calculated from voltage Piezoelectric strain gauges are the most sensitive and reliable devices.. MECHANICAL STRAIN GAUGE • It is made up of two separate plastic layers The bottom layer has a ruled scale on it and the top layer has a red arrow or pointer.. 13 BONDED STRAIN GAUGE • A bonded strain-gage element, consisting of a metallic wire, etched foil, vacuum-deposited film, or semiconductor bar, is cemented to the strained surface.. One layer is glued to one side of the crack and one layer to the other As the crack opens, the layers slide very slowly past one another and the pointer moves over the scale.. 4 HISTORY A brief history of the Strain Gauge: • 1856 : Lord Kelvin first reported on a relationship between strain and the resistance of wire conductors.. TYPES Based on construction : • Foil strain gauge • Semiconductor strain gauge • Photoelectric Strain gauge 10.. • Strain can be inferred by measuring change in resistance 12 PIEZOELECTRIC STRAIN GAUGE • Piezoelectric generate electric voltage when strain is applied over it.. • 1937/8 : Arthur Ruge discovered that small diameter wires made of electrical resistance alloys could be bonded to a structure to measure surface strain. 0041d406d9 [Ati Radeon X1550 Driver For Mac](#)

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