

Product Name :
Astra Scientific Measurement Of Strain Using Strain Gauge

Product Code :
Instrumentation0001



Description :

Astra Scientific Measurement Of Strain Using Strain Gauge

Technical Specification :

Strain in terms of Kilograms on a cantilever beam.

Measurement System : a] Weights b] Transducer with electronic instrumentation.

Transducer : Temperature compensated strain gauge.

Type : Cu-Ni foil with polyamide carrier base.

Gauge Resistance : 350 Ohms (Nominal).

Gauge Length : 6mm.

Gauge Width : 2.4 mm.

Gauge Base : 12.5 mm x 4.3 mm.

Gauge Factor : 2:1 (approx.)

Transducer : Strain gauges mounted on a stainless steel Measurement cantilever beam.

Configuration : Bridge with two arms as strain gauges (Wheatstones Bridge principle).

Range : 10 Kilograms.

Actual Strain : By various weights to be placed in a pan fixed with the beam.

Excitation Source : DC Regulated source.

Tare Adjustment : Zero adjustment by a ten turn potentiometer.

Readout : 3.5 digit digital display to indicate strain in kilograms.

Test Points : Multicoloured test points are provided at various stages in the circuit to observe waveforms and voltages.

Indicator : Mains ON/OFF.

Power Requirements

Standard Accessories : Detailed Instruction Manual.



Astra Scientific

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