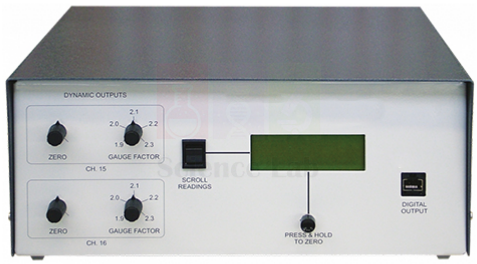
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Product Name :

Digital Strain Display

Product Code :

SLE/ETP/11



Description :

Digital Strain Display (Product Code: SLE/ETP/11) is a sixteen-channel strain indicator used to give direct readings of strain from metal-foil strain gauges in stress-analysis and materials testing laboratories. It accepts up to 16 channels wired in quarter, half or full bridge and is fully programmable to match each gauge and bridge connection. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, among the test and measurement instruments in India that it provides for engineering colleges.

Specifications

Parameter	Detail
Channels	Up to 16 strain gauge channels
Gauge types	Industry-standard strain gauges; most types of metal-foil strain gauges
Bridge connections	Quarter, half or full bridge; connects to most types of strain bridge connections
Programming	Fully programmable to match the strain gauges and their bridge connections
Half-bridge support	Precision internal make-up resistors
Dynamic outputs	Two channels include additional, individually adjusted dynamic outputs
Readout	Direct readings of strain
Connectors	Self-locking, secure connectors that need no soldering
Tool included	Crimping tool for fitting the connectors to the cable
Product code	SLE/ETP/11
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Digital Strain Display Used For?

A bonded strain gauge changes resistance by a tiny amount as the surface beneath it stretches, and a Wheatstone bridge turns that change into a small voltage. The Digital Strain Display reads the bridge outputs and shows the result directly as strain, so students spend lab time on analysis rather than on conversions. With sixteen inputs it can log a whole set of gauges on a beam, cylinder or plate at once.

Typical uses include pressure-vessel and diaphragm experiments, beam bending tests and student projects on custom-gauged parts. The two channels with dynamic outputs can pass a changing strain signal on to another instrument. Enter the details of each gauge and its bridge type before testing, zero the readings with the structure unloaded, and label cables so each channel matches its gauge position.

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