

COMPOSITES TEST FIXTURES

Strain Gauge Adapters



From aerospace to construction, strain gauges are used in a variety of industries to measure strain in both materials and structural testing. These strain gauge adapters allow a single strain gauge to be used with any standard Instron® strain channel.

FEATURES AND BENEFITS

- Simple to use
- Accurate readings
- Synchronous data acquisition with Instron electronics
- T-Slot mounting

PRINCIPLE OF OPERATION

The strain gauge adapter contains bridge completion resistors and electrical calibration circuitry.

The strain gauge leads are connected to the adapter via a spring-loaded terminal. Both 2 and 3 wire strain gauge connections are supported. The adapter is compatible with strain gauges that have gauge factors between 1.5 - 2.5.

Multiple strain gauges require multiple adapters, which can be used up to the maximum number of strain channels fitted to the testing machine (includes Expansion channels on 5900 systems).¹

It is recommended that the adapter is used with Instron Bluehill® Software.

RELATED PRODUCTS

- Strain Conditioner Cards

SPECIFICATIONS

	2210-891	2210-892
Gauge Resistance	120 ohm	350 ohm
Gauge Factor	1.5 to 2.5	
Full Scale Strain	50,000 $\mu\epsilon$ / 5%	
Linearity (Strain <1% / 10,000 $\mu\epsilon$)	Better than 1% of Reading or 0.01% of Full Scale*	
Linearity (Strain <5% / 50,000 $\mu\epsilon$)	Better than 3% of Reading or 0.01% of Full Scale*	
Strain Gauge Connections	Spring-Loaded Terminals	
Controller Connection	Standard 25-Way Connector	
Cable Length	2 m	
Size ²	100 × 50 × 25 mm	

Notes:

1. The adapter is not compatible with 5500 Versa Channel
2. Not including terminals

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