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Electronic Extensometer For Tensile Deformation Test

Product description:

What is the extensometer? The electronic extensometer is a sensor that measures the deformation of the test piece. The strain gauge extensometer is a widely used type due to its simple principle and c



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What is the extensometer?

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The electronic extensioneter is a sensor that measures the deformation of the test piece. The strain gauge extensioneter is a widely used type due to its simple principle and convenient installation. Electronic extensioneters can be divided into axial extensioneters, lateral extensioneters, and clip extensioneters according to the measurement object.

Introduction of the YYU extensometer:

YYU series axial deformation extensometer is suitable for testing of metal and non-metal materials. Including conventional extensometer, average strain extensometer, special extensometer (large gauge steel strand, concrete, rock, wood, etc.)

Used to measure elastic modulus E, prescribed non-proportional elongation strength RP, prescribed total elongation strength Rt, various elongations, strain hardening index n and other parameters.

Using method:

YYU series extensioneter mounting card: Use two fingers to gently pinch the extensioneter's two force arms to make the gauge rod contact the force arm, and insert the attached gauge sheet opening between one of the force arm and the gauge rod between. Using an extensioneter hook, secure the extensioneter to the specimen with a rubber band.

Note: The holding force should be appropriate, and the center line of the two knife edges should be parallel to and aligned with the axis of the sample.

After the inspection is correct, remove the gauge plate so that a distance of about 0.5mm is maintained between the force arm and the gauge rod.

For YYU series extensioneters using spring clamps, please refer to Article 2 and special precautions.

Technical Parameters:

- 1. Resistance value of strain gauge: 350Ω
- 2. Supply bridge voltage value: ≤6V (DC, AC)
- 3. Output sensitivity: about 2mv / v
- 4. Extensometer gauge distance: YYU series 20 ~ 200mm; YYJ series 5 ~ 25mm.
- 5. Maximum deformation: YYU series 25mm; YYJ series 4mm
- 6. Output terminal connector: four-core or five-core plug, etc.

The above are general parameters. If users have special requirements, they can be specially produced and provided as required.

Model	Gauge length (mm)	Stroke (mm)	Relative Error	Usage
YYU Deformation/Gauge	500	5,10,25	Class 1	Strand tester
r e Belefination, eduge	250			
	200	1		
	100		Class 1	Use for general tensile testing machine
	(70)			
	50	1		
	25	1		
	20	1		
YYU-Deformation /Gauge SH	100		Class 1	An average strain gauge is used
	50			
	25			
YYJ Deformation/Gauge	10	4	Class 1	Used in fracture
	5	2		mechanics experiments
YYJ-Deformation/Gauge H	25	3	Class 1	Used to measure R values and radial
	20	3		variability
	12.5	3		
YYJ-12J/6				
	6	12		Torsion extensometer
Digital extensometer.	≤500	5,10,25	Class 1	For tensile testing
high low temperature extensometer.	.≤500	5,10,25		For tensile testing
YYU-Deformation /Gauge SH	25、50、100	< 1mm		For concrete cement, etc
YYS Deformation/Gauge	≤50	< 5mm	Class 0.5	High precision extensometer