



Model 100RC Extensometer

The Tininius Olsen model 100 RC is a high elongation extensometer that is designed to measure the 'stretch' of a wide range of materials including elastomers and non-rigid plastics. The initial measuring length, or gauge length, can be changed to suit the specimen size or the test standard that is being applied.

The unique design ensures an extremely low tracking force for testing sensitive materials as well a robust construction that can easily withstand the high release forces and breaking energies with certain specimens. The design also incorporates a simple yet effective method with which the extensometer followers are attached to the specimen, allowing rapid throughput of testing.

Extension is measured by attaching two counterbalanced extensometer clamps to the specimen at a pre-selected gauge length. When tensile forces are applied to the specimen by the testing machine, the slightest change in gauge length is measured by an optical encoder. Signals from the optical encoder are fed into the signal conditioner interface for processing.

The 100 RC extensometer can be fitted to all sizes of screw driven materials testing machines.



Model		100 RC
Elongation Measurement Range	in	28.35 (extended options available)
	mm	720 (extended options available)
Gauge Lengths	mm	10,15,20, 25, 40, 50
Accuracy		1% on 25mm gauge length, BS5214 grade D
Resolution	in	0.0004
	mm	0.01
Specimen Thickness	in	0 to 0.2
	mm	0 to 5
Tracking Force	lbf	<0.02
	g	<10
Dimensions HxWxD	in	40x2.1x7.9
	mm	1015x53x200
Weight	lb	11
	kg	5.5

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Fig 2. Model 100 RC long travel extensometer.



Fig 3. Model H5kS testing machine with 100 RC long travel extensometer.

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