Order Code : 20213547.1.4

Name : Apparatus to verify magnetic damping and kinetic friction coefficient

Specifications:

Magnetic damping is an important concept in electromagnetism. The mechanical effect of magnetic damping has very important applications. This experimental apparatus is designed to measure the uniform sliding speed of a magnetic slide on a non-ferromagnetic conductor inclined rail. Through data processing, magnetic damping coefficient and sliding friction coefficient are acquired. This experimental apparatus is related to physics concepts such as mechanics and electromagnetism.

Using this unit, the following experiments can be conducted:

1. Observe magnetic damping phenomenon & understand its concept & applications.
2. Observe sliding friction phenomena & understand the application of friction coefficient in industry.
3. Learn how to process data to transfer a nonlinear equation into a linear equation.
4. Acquire magnetic damping coefficient and kinetic friction coefficient.

Inclined rail	Range of adjustable angle: 0°~ 90°
	Length: 1.1 m
	Length at junction: 0.44 m
Adjusting support	Length: 0.63 m
Counting timer	Counting: 10 times (storage)
	Timing range: 0.000-9.999 s; resolution: 0.001 s
Magnetic slide	Dimension: diameter=18 mm; thickness= 6 mm
	Mass: 11.07 g

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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