

LETI-40 Comprehensive Apparatus of Heat Experiments

- Expandable
- Cost effective
- Independent modules



This comprehensive experimental apparatus consists of a control unit and independent functional modules. The control unit integrates measurement and display units for parameters such as temperature, pressure, voltage, and current with high-precision long time timing unit, PID control and manual control unit, multiple sets of DC power supply unit, and four-way sensor interface unit. Each functional module is specifically designed for a set of particular experiments (at present, there is only one module available and more modules will be added when they become available).

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Experimental Contents

- (1) PID applications.
- (2) Heat conductive coefficient measurement of poor conductor.
- (3) Heat conductive coefficient measurement of air.
- (4) Heat conductive coefficient measurement of metal.
- (5) Specific heat capacity measurement of metal.
- (6) Linear expansion coefficient measurement of metal.

Specifications

Sensor input	4 ports
Temperature display	4 meters
Measurement display	current, voltage and pressure, 1 each
Timer	5 digits, 3 scales, min. 0.001 sec. manual or photo gate control
PID temperature controller	resolution: 0.1 °C; precision: ± 0.2 °C
DC output	5 V/1 A
Dimensions	30 cm × 35 cm × 40 cm

Part List

1.Control unit	1	
2.Module #1	1	
3.Standard thickness plate	1	Thickness 1 mm
4.Copper heat dispensing plate	1	
5.Aluminum heat dispensing plate	1	
6.Rubber plate	1	
7.Aluminum cylinder	1	
8.Centering plate	1	
9.Temperature sensor	4	
10.Micrometer	1	
11.Connection wire	3	Red, black and 5-core
12. Power cord	1	



Lambda Scientific Systems, Inc. 16300 SW 137th Ave, Unit 132 Miami, FL 33177, USA Phone: 305.252.3838 Fax: 305.517.3739 E-mail: sales@lambdasys.com Web: www.lambdasys.com



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