Product Name :	Product Code :
Heat Transfer Teaching Equipment India	ALABS-A104-323

Description :

Heat Transfer Teaching Equipment

- A bench top service unit designed to interface to a range of heat transfer accessories.

- Provides a variable, stabilised 0-24V DC supply to the heater of the heat transfer accessory, with a current capability of 9A.

- Provides a drive signal for a proportioning solenoid valve used for flow control.

- Provides a control signal to a variable speed blower used for generating airflow.

- 10 temperature inputs and conditioning circuits for K-type thermocouples:

- 9 off, 0-133°C, resolution <0.1°C

- 1 off, 0-500°C, resolution <0.15°C

- Instrumentation inputs for heater voltage, heater current, air flow, water flow, radiation and light meter.

- Integral USB interface, and educational software for all accessories.

- Outputs can be controlled manually from the front panel, or controlled by the software from a user supplied PC.

- Watchdog circuit for operator and equipment safety in case of computer or interface failure when being controlled remotely.

- Easy interfacing to 3rd party software e.g. LabView, MatLab.

- A comprehensive instruction manual
  describing how to carry out the laboratory teaching exercises in
  non-steady state heat transfer and their analysis as well as assembly,
  installation and commissioning is included.

Features:

- Small-scale, benchtop equipment

- Common service unit avoids unnecessary cost duplication for control and instrumentation

- Multiple accessories available covering a wide range of heat transfer investigations

- Computer control of heaters, water flow, air flow, with safety functions implemented to allow for remote operation

- Improved accuracy for quantitative results which can be related directly to theory

- Integral USB interface