



## Thermal Expansion Apparatus (SMT-HT-55)

Thermal Expansion Apparatus students can accurately and easily investigate the expansion of metals with increasing temperature. The accepted values for the Coefficient of Thermal Expansion for each of the metals that comprise the tubes can be found in the manual. Brass, copper and aluminum tubes are included so that students can compare the coefficients of expansion of the different metals. The fluid used to heat the tubes can be water or steam at any temperature.

### TECHNICAL SPECIFICATIONS

#### Specifications:

- Base with built-in digital gauge and connections for the thermistor and banana plugs
- Expansion Tubes with built-in thermistor (3).

#### Technical Data:

- **Built-in Digital Gauge:** Measure the rod expansion with 0.01 mm resolution
- **Built-in Thermistor:** A 10 k thermistor is connected directly to each tube and the temperature can be determined using a digital ohmmeter or Temperature Sensor.
- **Heat with Steam or Water:** The fluid used may be steam or water at any temperature.
- **Three Drop-in Metal Tubes:** Each tube connects securely onto the rigid base. The other two can be simultaneously mounted on the base for convenient storage.

