

KMP-118**PHASE TRANSITION IN BARIUM TITANATE/ CURIE-WEISS LAW****Experiment(s):**

1. Determination of ferro electric phase transition & verification of Curie-Weiss Law
2. Ferro electric phase transition in Barium Titanate

Experiment setup consists:

- a) Heater, thermometer and Parallel plate capacitor arrangement
- b) Capacitance meter

Specifications:**a) Heater, thermometer and Parallel plate capacitor arrangement**

Heating mantel with thermostat

Temperature: upto 200 °C

Heating indication: Yes

Sample: Barium Titanate

Capacitance: Parallel plate capacitor with interchangeable dielectric medium

Thermometer: Digital battery operated

Range: 300 °C

Resolution: 0.1 °C

b) Capacitance meter

Range 0 - 1000 pF

Resolution: 1 pF

Mains Socket: 3 Pin with fused protection

Rated Input: 220 V/50 Hz

or 110 V/60 Hz

Power consumption: <30 W

Cabinet: Acrylic body, aluminium bottom

