

PHASE TRANSITION IN BARIUM TITANATE/ CURIE-WEISS LAW

Model: PT-501/118

Experiment(s):

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

(For more details, procedure & manual visit: www.kamaljeeth.net)

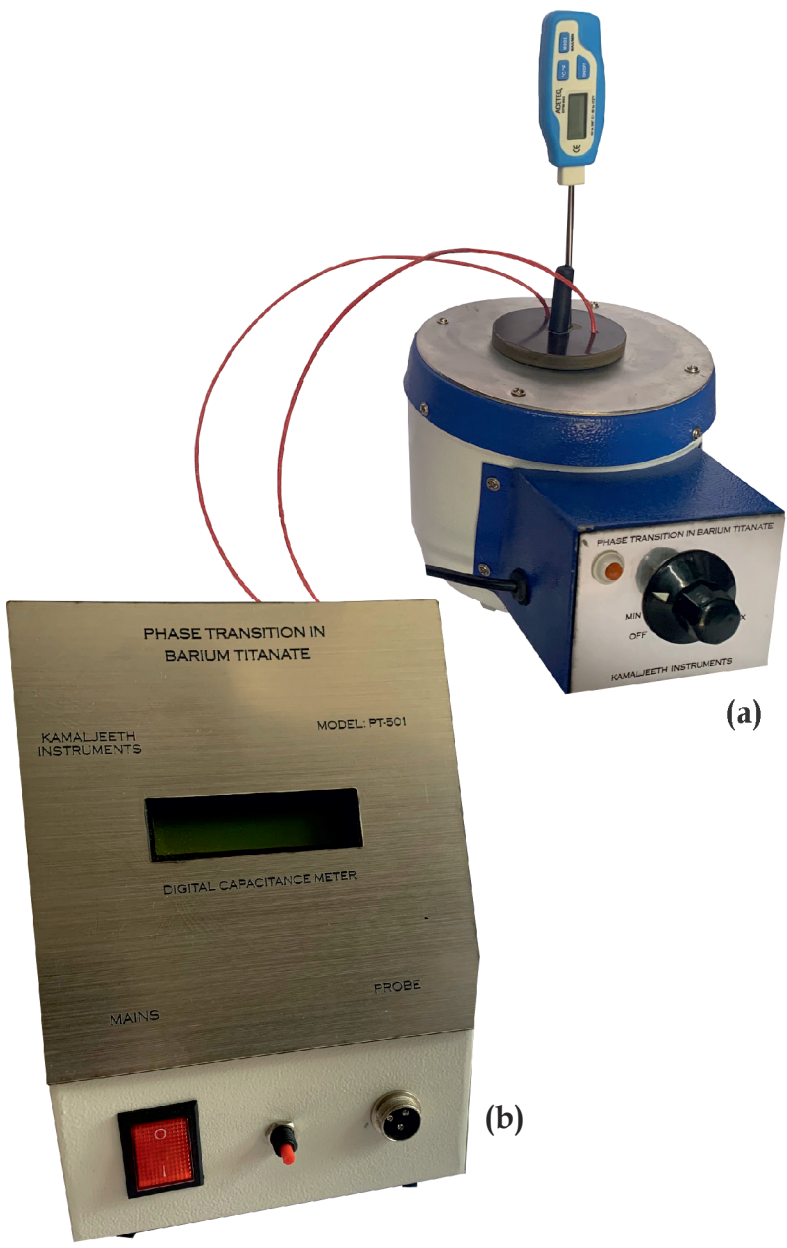
Reference : *Lab Experiments Journal vol-8, No.3, Page-228*

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



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3 years manufacturing warranty