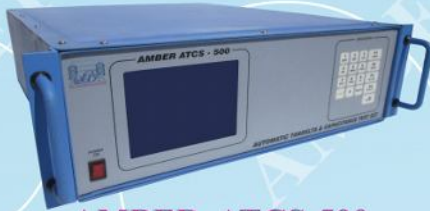


# TAN DELTA AND CAPACITANCE TEST SET



**AMBER ATCS-500**



**AMBER ATCS-500<sup>HT</sup>**

## Features

- Complete Microprocessor control
- 3 Terminal Measurements with guard
- Transformer ratio arm measurement technique
- Grounded and ungrounded specimen tests.
- 3 Measuring leads with switching
- 320 x240 dot Back-Lit Graphical LCD display.
- Parameter entry through keyboard
- Alarm Indication for Error messages
- RS- 232 Printer Interface
- Parallel Port Printer Interface\*
- Automatic Save & Print\*
- Automatic updating of Date & Time\*
- USB (Pen drive) interface\*
- Measurement not affected by H.V. Interference

## Specification

### Capacitance

Range ATCS-500 : 0-240 pF upto 0.12  $\mu$ F  
 Accuracy : 0.2% of reading  $\pm$  4Pf  
 Operating Temperature : 0° - 50° C

### Dissipation Factor

Range : 0-30 %  
 Accuracy :  $\pm$  2% of Std reading  $\pm$  1% FS

### Test Voltage

ATCS-500 : 500V, 80Hz  
 : The instrument measures the

### Measurements

following combinations:  
 UST C<sub>H-L</sub> : (Ungrounded specimen test, Hi to Lo)  
 GST C<sub>H-G</sub> : (Grounded specimen test, Hi to Gnd)  
 GST C<sub>L-G</sub> : (Grounded specimen test, Lo to Gnd)  
 GST C<sub>H-G</sub> + C<sub>H-L</sub> : (Grounded specimen test, Hi to Gnd, Plus Hi to Lo)  
 GST C<sub>L-G</sub> + C<sub>L-H</sub> : (Grounded specimen test, Lo to Gnd, Plus Lo to Hi)

ATCS-500 Power : 230V  $\pm$  10%, 50Hz  $\pm$  100VA  
 or 110V  $\pm$  10%, 60Hz, 100VA

Dimensions : 19" x19"x8"(L x W x H)  
 weight : 22kgs (approx)

Specifications may change without notice due to continuous development.

**\*For ATCS-500<sup>HT</sup> Only.**

## Description

The Model ATCS-500 Low Voltage Tan Delta and Capacitance Test Set is an instrument designed for the accurate measurement of capacitance and Tan Delta of an electrical insulation of Transformers, Motors, Generators etc., This instrument is suitable to measure Grounded and Ungrounded measurements on a Test specimen.

A quick balancing of measurements is achieved by using a phase sensitive detector. The instrument uses Test frequency of 80Hz to make the measurement of electrical insulation in a high voltage switch yards to overcome the power line /HV interference.

The Graphical LCD is displays direct reading of capacitance in either  $\mu$ F or pF and the dissipation factor (Tan Delta) is expressed directly in percent.

The test voltage 500V has been chosen, neither too low to affect the accuracy of measurements nor too high to be dangerous to the operator.

## Application

For quick, simple and accurate Low Voltage Capacitance and Tan Delta tests in the shop or field on: Bushings, Generators, Insulators, Transformer Dry outs, Instrument Transformers, CVTs, Insulating Oils, Power Transformers, Breakers, Capacitor Banks, Cables, Motors.

## ATCS-500 Calibrator



This calibration box is used to cross check the instrument for the proper results. The portable Calibrator offers one Capacitance, four Tan Delta values. The maximum operating voltage is 500V AC.

An ISO 9001 : 2015 Certified Company

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