



DTS SERIES OIL DIELECTRIC TESTERS

Frequently Asked Questions

Q Do the various test cups used come with the instrument?

A No, they must be purchased separately and are usually shipped with the instrument. Many standards worldwide exist defining different shapes, sizes, and methods of use for the test cups, or test cells. The test cells needed are defined by the standard one is following. HVI designs and manufacturers several models that cover most of the requirements encountered. Consult the factory for options.

Q The test cup sits on two electrodes from the high voltage transformer. Is one of the electrodes grounded and the other 60 kVac? Can I hipot something at 0 – 60 kVac?

A No, the HV output of DTS and DTS A oil testers is **not** designed as a traditional 0 - max kV hipot with one end referenced to ground. The voltage between these electrodes is +/- 30 kVac or +/- 50 kVac depending on model, not 0 – 60 kVac or 0 – 100 kVac, respectively. The internal transformer has two equal voltages, but polarity opposed, windings in series to provide 60 kVac or 100 kVac between them but neither is intended to provide a ground referenced output voltage.

Q Are there pre-programmed test routines in the DTS Series of oil testers?

A Yes, within the automated and programmable DTS A Series. The following are the current tests/Standards stored in the DTS:

ASTM D1816/12 – USA
ASTM D877/13 - USA
IEC 156/95 - International
IEC 156/63 - International
ASTM D1816/84 - USA
ASTM D877/87 - USA

UTE C27-221/74 - France
CEI 10-1/73 - Italy
VDE 370 – P5/92 - Germany
IRAM 2341/72 - Argentina
RVHP 1985 - Russia
PN-77/ED4408 – Poland

Q Are there multiple languages available to the user for the programming and control readouts of the DTS Series of oil testers?

A Yes, but only one. The DTS “A Series” models include **Spanish** language operation and programming.



Q Is a panel-mounted printer included with every model?

A A thermal paper, strip chart printer is included with the DTS-A Series, which are the automated, programmable, data recording models. The simpler DTS Series does not include a printer.

Q What kind of paper is used for the panel printer? Where can I get it?

A It is standard thermal roll paper available at most office supply stores. It is 2 ¼" wide x 80' long. The Staples Stores part number is 472872 or 452175.

SAMPLE TEST REPORT FROM PRINTER

High Voltage, INC.
DTS-60A Test Report

Operator
Company : High Voltage
Name : John Smith
Contact : +30-210-9319505
Info : smith@hvinc.com

Report ID : 1018

Time : 14:41:14
Date : 24/01/2005
Temperature : 19 °C

Test Name : SIMPLE TEST
Electrodes : Unknown

Num. Breakdown : 5
Mean Breakdown : 50.61
Std Breakdown : 6.24

Stage 1: 0.5kV/s, 0.0> 48.1kV, Breakdown
Stage 2: 0.5kV/s, 0.0> 40.7kV, Breakdown
Stage 3: 0.5kV/s, 0.0> 54.9kV, Breakdown
Stage 4: 0.5kV/s, 0.0> 54.3kV, Breakdown
Stage 5: 0.5kV/s, 0.0> 55.1kV, Breakdown



DTS A Model Controls