



CTI TEST APPARATUS

The CTI test apparatus serves for determining the comparative tracking index of insulating materials. The test is based on the next:

An a.c. voltage is applied to the two electrodes arranged on the surface of the insulating material specimen. The surface between the electrodes is subjected to a succession of drops of electrolyte. The voltage value shall be determined which, after 50 respectively 100 drops, will not produce tracking yet that would trigger the operation of the over-current device (voltage associated with 50 respectively 100 drops).

The task is to make a safety and user friend apparatus.

Due to the above, Ex Testing Station has developed the apparatus described in the standard.

The apparatus is fully automatized and computer controlled. The handling of the equipment becomes with a help of a touch screen. The high-voltage parts of the apparatus are in a safety box, so the user can not touch them under working.

All the elements required for the operation of the apparatus are assembled in only one compact unit. As soon as the CTI appa-

ratus required for the test is the necessary elektrolyte and the electrical connection is made, the apparatus is ready for operation.

The CTI test apparatus is completed with a moveable object table and an electrically controlled drop device.

The measuring process starts with the pressing of one button only; the apparatus runs down the test in automatic operation mode then evaluates the obtained results.

The whole process is controlled by a computer, what can be connected to provide for man-machine contact.

The installation and usage of the CTI test apparatus of compact construction, due to its design and the user-friendly software, is very simple and can be learned during a short period of time. The operator's errors can be almost totally eliminated. Thus time and money will be saved during operation.