

EQUIPMENT INTENDED TO DISPLAY THE SWITCHING OSCILLOGRAM TYPE PLOT-02

GENERALS

Plot-02 is a microprocessor equipment, intended to make oscillograms and records of the switching times of the on/load tap changer breakers.



OPERATION

The equipment has six inputs for recording the switching, four of them being independent (A, B, C, D) and two inputs (X, Y) combined with the channels A, B, so that it can be possible to achieve oscillograms of the switching specific to on/load changers.

The programming of the Plot-02 equipment is performed from a local MMI and the visualization of the switching times is achieved on a graphic module with liquid crystals of 240 x 128 pixels.

The equipment allows to record and storage 20 sets of measurements of the switching times, and also to transfer the recorded data to an IBM PC compatible computer, by means of the RS 232 serial interface and an adequate software.

Due to the protection system with buffer long-life micro-battery, Plot 02 does not lose the information stored, in case of its disconnecting from the mains. The basic software of the equipment contains 5 operating modes performing the measurements.

READY allows to visualize the records (name, time, date) and to select a record with a view to erasing;

SETTINGS allows to set time, sampling duration and record denomination, by means of the keys from the frontal panel;

BUSY it represents the standby condition until the recording release

PREVIEW it allows the complete displaying on the graphic display, the record denomination and its saving or erasing;

VIEW it allows to increase the image from the PREVIEW, and also to select the switching times and to display them.

In order to carry out the communication with the IBM PC compatible computer, a specialized software is implemented – PLOTING program, which has the facilities necessary for data transfer, processing and printing.

TECHNICAL CHARACTERISTICS

- Supplying voltage..... 220 VAC \pm 10 %, 50-60 Hz;
- Measuring voltage..... 16 VDC – 18 VDC;
- Operating temperature..... 0 - +50⁰ C;
- Storage temperature..... -40⁰ C - +70⁰ C;
- Overall dimensions..... 290 x 200 x 165 [mm] ;
- Weight..... 2.1 kg;
- Protection degree..... IP 30;
- Set of conductors for checking..... 6 x 2 m/1.5 mm²;
- Time base is programmable..... 0.092 ms – 11.759 ms;
(t=Kx0.046 ms; K=2-255)
- Measurement accuracy..... \pm 0.092 ms