

SCOPE

SCOT M3K
SCOT MXP
Circuit Breaker
Time Interval Meter



Forget about high tension...
SCOT measures CB timings in live switchyards

SCOT M3K, SCOT MXP

The Product

CIRCUIT BREAKER TIME INTERVAL METERS

SCOT Series of CB Time Interval Meters from SCOPE are compact and reliable instruments to measure operation times of all types of HV and EHV circuit breakers under charged switchyard conditions.

The two models, SCOT M3K and SCOT MXP have unique features to enhance the utility of the instruments:

- Inbuilt clock to tag date and time of test to the readings.
- 4 line 20 character backlit LCD display for menu and results.
- Inbuilt memory to hold results of last fifty tests.
- Easy to use menu driven user interface for operation.
- Diagnostics for instrument condition and calibration watch.
- Inbuilt printer for printing results (SCOT MXP).

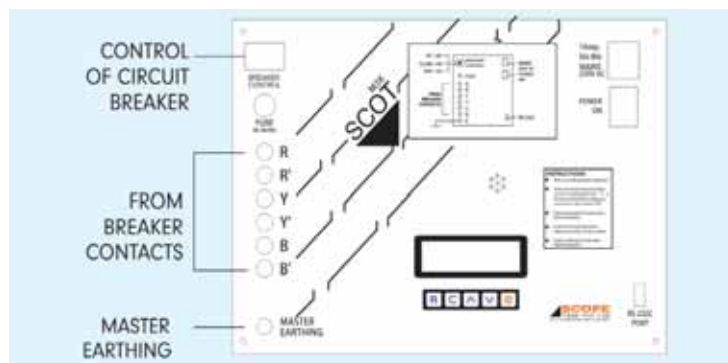
SCOT M3K

Time Interval Meter measures and displays CLOSE, OPEN and C-O times of main contacts of 3 poles connected end to end, simultaneously.

Measuring with SCOT M3K & SCOT MXP

- Isolate breaker to be tested from both sides and earth it
- Connect 'SCOT' to breaker as shown in the diagram
- Remove earthing from breaker poles
- Select the operation and mode to be performed e.g. Close, Open or CO
- Give command to operate the circuit breaker.
- Operation times of all three poles are measured and displayed simultaneously on the display (also printed out, on SCOT MXP)
- Test results can be stored and downloaded to a PC, saved, viewed and organised using SCOPE's CDATE software

Connections for SCOT M3K



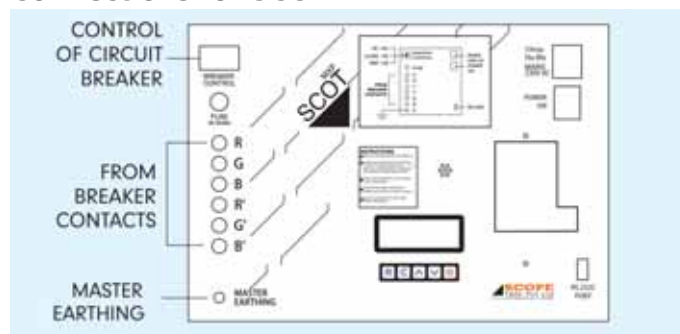
Specifications

- Channels : Three
- Control of Breaker : Through 300V / 30A SSRs to Trip and Close the connected circuit breaker
- Output : 4 line 20 character backlit LCD
RS 232C port for downloading data to PC
- Range : 999 milliseconds maximum
- Resolution : 1 millisecond
- Measuring Accuracy : Value $\pm 0.05\% \pm 1$ digit
- Test Leads : Set of 15m, wear resistant Test Cables
- Environment : 0° to 50° C, 95% RH (Non-condensing)
Electrical noise normally found in live switchyards of upto 420kV
- Power : 230V AC $\pm 15\%$, 50Hz $\pm 10\%$, 25 VA
- Dimensions : 430 x 345 x 160 mm
- Weight : 6 kg, instrument

SCOT MXP

SCOT MXP measures, displays and prints CLOSE, OPEN and C-O times in various configurations. The MXP has a special mode to measure PIR closing time.

Connections for SCOT MXP



Specifications

- Channels : Maximum eight in PIR mode
- Control of breaker : Through 300V / 30A SSRs to Trip and Close the connected circuit breaker
- Output : 4 line 20 character backlit LCD
RS 232 C port for downloading data to PC
- Printer : Inbuilt, thermal printer
- Paper : Thermal, 55 mm wide roll
- Test Leads : Set of 15m, wear resistant Test Cables
- Range : 999 milliseconds maximum
- Resolution : 1 millisecond
- Measuring accuracy : Value $\pm 0.05\% \pm 1$ digit
- Environment : 0° to 50° C, 95% RH (Non-condensing)
Electrical noise normally found in live switchyards of upto 420kV
- Power : 230V AC $\pm 15\%$, 50Hz $\pm 10\%$, 25 VA
- Dimensions : 430 x 345 x 160 mm
- Weight : 6 kg, instrument

Ordering Information

Description	Std Qty
SCOT M3K Circuit Breaker Time Interval Meter complete with 15 Meter Test Lead set & CDATE 1.0 PC downloading & Analysis software	1 set
SCOT MXP Circuit Breaker Time Interval Meter complete with 15 Meter Test Lead set & CDATE 1.0 PC downloading & Analysis software	1 set

Note: Calibration Certificate having traceability to NABL is supplied

Simple solutions for difficult measurements®

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