Forget about high tension....

SCOT measures CB timings in live switchyards



CIRCUIT BREAKER TIME INTERVAL METERS

Millennium versions of SCOT Series of 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 swichyard 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.

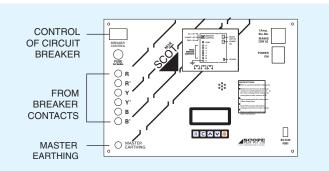
SCOT M3K

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

Testing with SCOT M3K & SCOT MXP

- $\hfill\square$ Isolate breaker to be tested from both sides and earth it
- $\hfill\square$ Connect 'SCOT' to breaker as shown in the diagram
- Remove earthing from breaker poles
- $\hfill\square$ 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 CDATA software

Connections for SCOT M3K



SPECIFICATIONS

Channels Control of Breaker	-	Three 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			
Range	:	999 milliseconds maximum			
Resolution	:	0.1millisecond			
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 ± 15%, 50Hz ±10% , 25 VA			
Dimensions	:	430 x 345 x 160 mm			
Weight	:	6 kg, instrument			

Note: Calibration Certificate having traceability to NPL is supplied

www.scopetnm.com

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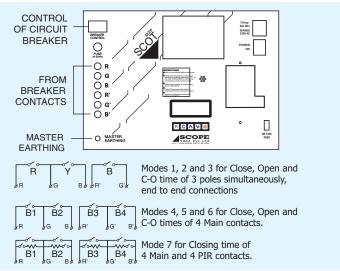
Specifications subject to change for product improvement

- Easy to use menu driven user interface for operation.
- Diagnostics for instrument condition and calibration watch.
- Inbuilt printer for printing results (SCOT MXP).

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 Control of breake Output	er :	Maximum eight in PIR mode Through 300V / 30A SSRs to Th Close the connected circuit bre 4 line 20 character backlit LCD				
Printer Paper Test Leads Range Resolution Measuring accura Environment Power Dimensions Weight Note: Calibration C	: : acy : : :	RS 232 C port for downloading Inbuilt, thermal printer Thermal, 55 mm wide roll Set of 15m, wear resistant Test 999 milliseconds maximum 0.1millisecond Value \pm 0.05% \pm 1 digit 0 to 50° C, 95% RH (Non-conde Electrical noise normally found in live switchyards of upto 4204 230V AC \pm 15%, 50Hz \pm 10%, 430 x 345 x 160 mm 6 kg, instrument naving traceability to NPL is supplied	t Cables ensing)			
ORDERING INFORMATION						
2100.45.00	SCOT M	3K Circuit Breaker Time Interval	1 set			
2101.45.00	SCOT M	XP Circuit Breaker Time Interval mplete with Test Leads	1 set			
OPTIONAL AC	CESSOF	RIES				
4100.02.00	CDATA 1 software	0 Numerical Analysis with communication cable	1 set	6		

Simple solutions for difficult measurements



Y-12-01