

SCOPE

MagD Step-Up Transformer



The Product

SCOPE introduces Step-Up Transformer - MagD, specially designed to cater the needs of testing of instrument transformers. Before new systems are put into service or after any occurrence of fault, the instrument transformers need to be tested for their outputs. It is to be ensured that these instrument transformers are giving proper outputs to the protective relays.

MagD is used to plot excitation curves for instrument transformers. Inbuilt voltmeter and ammeter, eliminates the need of external meters for plotting of curves. It can also be used for de-magnetization of transformer cores and also turns-ratio tests can be conducted using MagD.

Thermal cutoff, Two-hand control and Variac Zero interlock is deployed for user safety and protection.

Features

- Prepare excitation curves quickly and easily
- Knee-point test of CTs
- De-magnetize transformer cores
- Conduct turns-ratio test of voltage transformers
- Inbuilt voltmeter and ammeter eliminates the need of external meters
- HV and LV* outputs available separately
- Online switching between HV and LV* outputs
- Visual Indicators for HV/LV* output ON
- Two-Hand control enhances user safety
- Interlocking feature for Variac Zero position for user safety
- Thermal cutoff for instrument and user safety
- Supplied with specially designed High voltage cables and rugged carrying case



Specifications

Parameters	MagD 20 / MagD 21*	MagD 30 / MagD 31*	MagD 50 / MagD 51*
HV output	0 to 2200V AC 0.5A (Continuous) / 1A (35s), 10 min Off	0 to 3000V AC 0.4A (Continuous) / 0.8A (35s), 10 min Off	0 to 5000V AC 0.3A (Continuous) / 0.6A (35s), 10 min Off
LV output*	0 to 250V AC, 8A Continuous		
Voltmeter	HV : 0 - 2200V AC LV* : 0 - 250V AC	HV : 0 - 3000V AC LV* : 0 - 250V AC	HV : 0 - 5000V AC LV* : 0 - 250V AC
Ammeter	HV : 0 - 1.5A LV* : 0 - 10A	HV : 0 - 1A LV* : 0 - 10A	HV : 0 - 0.5A LV* : 0 - 10A
Protection	Variac Zero Interlock, Two hand control, Thermal Cutt-off		
Mains input supply	230V ± 15%, 50Hz ± 10%, AC		
Operating Temperature	0°C to 50°C, Up to 95% RH (Non-Condensing)		
Dimensions	450 x 500 x 590mm Approx.		
Weight (Approx.)	46 kg		

Scope of Supply

Description	Quantity
Aluminium Carrying Case	1 No.
Input Power Supply Cable 2 meter	1 Set
LV Output Cable 5 meter*	1 Set
HV Output Cable 5 meter	1 Set

Ordering Code

Example: MagD		0	O	F	F	N	F	F	T	R	I	N	#	
MagD				F	F		F	F						
2	2kV Output												Customised	Z
3	3kV Output												None*	N
5	5kV Output												Universal Plug	U
0	Single Output (Only HV)*												Indian Plug*	I
1	Dual Output (HV & LV)												230V ± 15%, 50Hz AC Input*	R
O	Analog Meter*												10m Test Lead Set	M
P	Digital Meter												5m Test Lead Set*	T
F	Reserved												Reserved	F
F	Reserved												Reserved	F
N	None*												Reserved	F
Z	Customised												Reserved	F

Note: *- Standard Feature/Accessory

#- MagD(ordering code : 0OFFNFFTRIN) means Step up Transformer with single HV output, Analog meter, 5m test lead set, 230V ±15%, 50/60Hz AC input, Indian plug

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Corporate Office

402, Aarus Chambers, Annex-A,
S.S.Amrutwar Marg, Worli,
Mumbai 400013, INDIA
Phone : +91 22 4344 4244
Fax : +91 22 4344 4242
Email : marketing@scopetnm.com

Works & After Seles

EL 31/11, 'J' BLOCK,
MIDC Bhosari,
Pune 411026, INDIA
Phone : +91 20 6733 3999
Fax : +91 20 6733 3900
Email : works@scopetnm.com

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T & M Pvt Ltd