MERATEST Meracie a testovacie prístroje

Transformer testing MI 3280 Digital Transformer Analyser



Digital Transformer Analyser (MI 3280) is a Multi-function, portable battery (Li-ion) powered test instrument with excellent IP protection: IP65 (case closed), IP54 (case open), intended for diagnosing of: turn ratio, phase deviation and excitation current of single and three phase transformers and winding resistance of single and three phase transformers.

MEASURING FUNCTIONS

Available functions and features offered by the Digital Transformer Analyser:

- Turn ratio measurement of single phase transformers;
- Phase deviation between high voltage and low voltage winding;
- Excitation current when measuring turn ratio:
- Turn ratio measurement of three phase transformers:
- Phase deviation between high voltage and low voltage winding;
- Excitation current when measuring turn ratio;
- Winding resistance measurement of single phase transformers;
- Winding resistance measurement of three phase transformers.

KEY FEATURES

- A 3.4" color LCD display with touch screen offers easy-to-read results and all associated parameters.
- The operation is straightforward and clear to enable the user to operate the instrument without the need for special training.
- Test results can be stored on the instrument.
 PC software that is supplied as a part of standard set enables transfer of measured results to PC where they can be analysed or printed.
- Built-in help screens for referencing on site.
- Autotest sequences.
- Built-in charger and rechargeable batteries as standard accessory.
- BT communication with PC, Android tablets and smart phones via built-in BT.
- PC SW Metrel ES Manager for creation of test structures and uploading, downloading of test results, autotest editor and report creation
- High degree of protection IP 65 (case closed), IP 54 (case open).

APPLICATION

- Power Transformers up to 1,6 MVA.
- · Voltage transformers.
- · Current transformers.

STANDARDS

Functionality

• C57.12.70

Electromagnetic compatibility

• EN 61326

Safety

- EN 61010 1
- EN 61010 2 030
- EN 61010 2 033
- EN 61010 031

Li - ion battery pack

• IEC 62133



TECHNICAL SPECIFICATION

Function		Measuring range	Resolution	Accuracy	
TURN RATIO r, rA, rB, rC	Excitation voltage 80 V	0.8000 9.9999	0.0001	±(0.2% of reading + 2 digits)	
		10.000 99.999	0.001	±(0.2% of reading + 2 digits)	
		100.00 999.99	0.01	±(0.2% of reading + 2 digits)	
		1000.0 1999.9	0.1	±(0.5% of reading + 2 digits)	
		2000.0 3999.9	0.1	±(0.5% of reading + 2 digits)	
		4000.0 8000.0	0.1	±(1.0% of reading + 2 digits)	
	Excitation voltage 40 V	0.8000 9.9999	0.0001	±(0.2% of reading + 2 digits)	
		10.000 99.999	0.001	±(0.2% of reading + 2 digits)	
		100.00 999.99	0.01	±(0.2% of reading + 2 digits)	
		1000.0 1999.9	0.01	±(0.5% of reading + 2 digits)	
		2000.0 3999.9	0.1	±(0.5% of reading + 2 digits)	
		4000.0 8000.0	0.1	n/a	
	Excitation voltage	0.8000 9.9999	0.0001	±(0.2% of reading + 2 digits)	
		10.000 99.999	0.001	±(0.2% of reading + 2 digits)	
		100.00 999.99	0.01	±(0.5% of reading + 2 digits)	
		1000.0 8000.0	0.1	n/a	
	Excitation voltage 5 V	0.8000 9.9999	0.0001	±(0.2% of reading + 2 digits)	
		10.000 99.999	0.001	±(0.2% of reading + 2 digits)	
		100.00 999.99	0.01	±(0.5% of reading + 2 digits)	
		1000.0 8000.0	0.1	n/a	
	Excitation voltage 1 V	0.8000 9.9999	0.0001	±(0.2% of reading + 2 digits)	
		10.000 99.999	0.001	±(0.5% of reading + 2 digits)	
		100.00 999.99	0.01	n/a	
		1000.0 8000.0	0.1	n/a	
EXCITATION CURRENT i, iA, iB, iC	Test frequency 55, 65 or 70 Hz	0.10 mA 9.99 mA	0.01 mA	±(2 % of reading + 0.20 mA)	
		10.0 mA 99.9 mA	0.1 mA	±(2 % of reading + 2 digits)	
		100 mA 999 mA	1 mA	±(2 % of reading + 2 digits)	
1, 121, 15, 16		1.00 A 1.10 A	0.01 A	±(2 % of reading + 2 digits)	
PHASE DEVIATION fi, jA, jB, jC	Test frequency 55, 65 or 70 Hz	-180.00 180.00 °	0.01°	±(0.05°)	
WINDING RESISTANCE R, RA, RB, RC	Test current 10 mA 1000 mA	1.0 mΩ 999.0 mΩ	0.1 mΩ	±(2 % of reading + 3 digits)	
		1.000 Ω 9.999 Ω	0.001 Ω	±(2 % of reading + 2 digits)	
		10.00 Ω 99.99 Ω	0.01 Ω	±(2 % of reading + 2 digits)	
		100.0 Ω 999.9 Ω	0.1 Ω	±(2 % of reading + 2 digits)	
	Battery power supply	14.4 V DC (4.4Ah Li-ion)			
	Battery charging time	typical 4.5 h (deep discharge)			
GENERAL	Mains power supply	90-260 VAC, 45-65 Hz, 100 VA (300 V CAT II)			
	Protection classification	reinforced insulation			
	Over-voltage category	50 V CAT IV			
	Pollution degree	2			
	Degree of protection	IP 65 (case closed), IP 54 (case open)			
	Dimensions (w x h x d)	360 x 160 x 330 mm			
	Weight	8.8 kg, (with battery and accessories)			
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ORDERING INFORMATION



- Instrument MI 3280
- 4 wire test lead with Kelvin clips, 2.5 m 4 pcs
- USB cable
- Mains cable
- Soft carrying bag
- Metrel ES Manager BASIC license*
- Instruction manual
- Calibration certificate

*Metrel ES Manager can be downloaded free of charge from Metrel Web server.

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. decription
66	S 2081	Set of test leads with Kelvin clips, 5 m

Váš dodávateľ:



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