MI 3295 Step Contact Voltage **Measuring System**



MI 3295 Step Contact Voltage Measuring System is a voltage measuring system for testing and verification of protective earthing of power stations, substation and other power systems.

MEASURING FUNCTIONS:

- Measurement of step voltage and contact voltage.
- Measurement of earthing resistance with resolution of 1 m Ω .

KEY FEATURES:

- High accuracy of the measurements due to a high current of up to 50 A and effective suppression of noise.
- Excellent immunity even against changing earth currents.
- Autonomous Step Voltage meter: no need for long voltage leads.
- Low weight.
- High safety due to low output voltage (55 V).
- Downloads test results directly to the PC with the help of the professional PC SW package HVLink which enables analysis and documentation of test results.

APPLICATION:

Measurement of protective earthing of:

- Power stations,
- Substations,
- Distribution towers,
- Other power systems



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- Low weight
- High accuracy
- EPHD PESSER CORFEE WORES Autonomous meter
- Excellent noise immunity



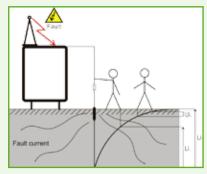
STANDARDS / REGULATIVES:

Functionality: RAT 2008; HD 673 N4; ANSI/IEEE Std 81; EN 61557-5

Electromagnetic compatibility (EMC): EN 61326

Safety (LVD): EN 61010-1; EN 61010-031

Step and Contact Voltages in case of failure





Technical Specification

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Function	Measuring range	Resolution	Accuracy
Step voltage, Contact voltage (measuring range Um)	0.01 19.99 mV 20.0 199.9 mV 200 1999 mV 2.00 19.99 V 20.0 V 59.9 V	0.01 mV 0.1 mV 1 mV 0.01 V 0.1 V	±(2% of reading + 2 digits)
Step voltage, Contact voltage (calculated measuring range U)	0.0 199.9 V 200 999 V	0.1 V 1 V	calculated value*
Test current	55 A max		
Test voltage	< 55 V		
Test frequency	55 Hz		
Input resistance	Selectable 1 M Ω / 1k Ω		
Current	0.00 9.99 A 10.0 99.9 A	0.01 A 0.1 A	\pm (3% of reading + 5 digits) \pm (3% of reading + 3 digits)
Resistance to earth	0.001 1.999 Ω 2.00 19.99 Ω 20.0 99.9 Ω 100.0 199.9 Ω	0.001 Ω 0.01 Ω 0.1 Ω 0.1 Ω	\pm (2% of reading + 5 digits) \pm (2% of reading + 5 digits) \pm (2% of reading + 5 digits) \pm (5% of reading)
Open circuit voltage	< 50 VAC		
Test current	< 7.5 A		
Test frequency	55 Hz		
General			
STATION			
Power supply	230 V / 50 or 60 Hz		
Communication port	RS232		
Memory	1000 memory locations		
Overvoltage category	CAT II / 300 V		
Measuring category	CAT IV / 50 V		
Protection degree	IP 30		
Display	LCD, 128 x 64 dots, with backlight		
Dimensions	563 x 275 x 257 mm		
Weight	29.5 kg		
METER			
Power supply	6 x 1.2 V rechargeable battery, type AA		
Operation time	12 h (typical)		
Communication ports	USB, RS232		
Memory	1500 memory locations		
Measuring category	CAT IV / 50 V		
Protection degree	IP 40		
Display	LCD, 128 x 64 dots, with backlight		
Dimensions	230 x 103 x 115 mm		
Weight	1.3 kg		

*Note:

Displayed Step / Contact voltage is obtained on base of calculation: $U_S = U_{meas} \cdot I_{fault} / I_{meas}; U_C = U_{meas} \cdot I_{fault} / I_{meas};$ I_{fault} (selectable)...... 1 A ... 200 kA



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ORDERING INFORMATION:



- Current earth spike
- Potential earth spike
- Current test lead, 50 m, black, 10 mm², with crocodile clip, on wheel
- Current test lead, 10 m, black, 10 mm², with crocodile clip
- Test lead, black, 2 x 3 m
- Test lead, green, 10 m
- Test lead, black, 1.5 m
- Test lead, red, 50 m
- Connection lead with crocodile clip, red, 1 m
- Crocodile clip, 4 pcs
- RS232 cable
- USB cable
- Soft carrying bag, 2 pcs
- Soft carrying neck belt
- NiMH battery cells, type AA, 6 pcs
- Power supply adapter
- CD with instruction manual and PC SW HVLink PRO
- Instruction manual
- Calibration certificate

Optional accessories:

Photo	Order No.	Decription	
,0,	A 1323	Current earth spike (with 3 m lead)	
	A 1324	Hand trolley	
	A 1353	Step voltage probe (25 kg), 2 pcs	
	MI 3295M Set	Step Contact Meter Measuring Set - Instrument MI 3295M - Test lead, 2 x 3 m - Soft carrying bag - Soft carrying neck belt - NiMH battery, type AA, 6 pcs - Power supply adapter	