Metrel Certificate of Calibration Practices

The Metrel Quality System is certified by BVQI according to Quality standard ISO 9001:2015, Certificate No. SL22466Q.
The Metrel hereby certifies that the above instrument was calibrated in accordance with applicable Metrel calibration procedures during the manufacturing process. These processes are ISO 9001 controlled and are designed to assure that the instrument will meet its published specification.

The Metrel further certifies that the measurement standards and instruments used during the calibration of this instrument are traceable to the (inter)national standards.
The policies and procedures at this facility comply with EN ISO/IEC 17025.

Environmental conditions: Temperature: 23 °C ± 5 °C
Relative humidity: 10 % to 75 %

Calibration Procedure: "Name of Model / Type"

Uncertainty: The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by coverage factor k = 2, which for a nominal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA Publication EA-4/02.

Edvard Reven
Chief Executive Officer

Janko Mole
Head of Calibration Laboratory

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Calibration Certificate

Model: Power Master MI 2892 Date: 17. 02. 2025

Serial No.: 16020160 Performed By: Darja Oblak

Date Placed In Service: 12 MAR 2025 Due Date: _____*

Metrel Recommended Cal Interval: 12 months

* The due date may be established (by the customer) by adding the "Recommended Cal Interval" to the "Date Placed In Service."

Outlook, keys, battery indication, charging current	PASS
Common mode rejection	PASS
1-wire communication check (flex clamps)	PASS
GPS, GPRS	PASS
Temperature probe	PASS

Voltage measuring (f = 60 Hz) According to IEC 61000-4-30:2008, Class A

All readings were caried out with PowerView.

Unominal	Reference	Low limit	Reading				High limit	Uncertainty	Units
		- 0.1% Unom	L1 - N	L2 - N	L3 - N	GND - N	+ 0.1% Unom.		
50 V L-N	5,00	4,95	5,00	5,00	5,00	5,00	5,05	0,01	V
	50.00	49,95	49,99	50,00	50,00	49,99	50,05	0.02	V
	75.00	74,93	75,00	75,00	74,99	74,99	75,05	0.02	V
110 V L-N	11,00	10,89	11,00	11,00	11,00	11,00	11,11	0,01	V
	110,00	109,89	110,00	109,99	110,00	109,99	110,11	0,03	V
	165.00	164,89	165,00	164,99	165,00	164,98	165,11	0.04	V
230 V L-N	23,00	22,77	22,99	23,00	23,00	23,00	23,23	0,01	V
	230.00	229,77	229,99	229,98	229,99	229,98	230,23	0,08	V
	345.00	344,77	345,00	344,99	345,00	344,99	345,23	0,09	V
400 V L-N	400,00	399,60	399,98	399,98	399,99	399,97	400,40	0,01	V
	400.00	399.60	399,98	399,96	399,97	399,96	400,40	0,13	V
	500,00	499,60	499,98	499,98	499,99	499,96	500,40	0,15	V

Current measuring (f = 50 Hz) All readings were caried out with PowerView.

Reference	Low limit	Reading				High limit	Uncertainty	Units
		I1	I2	I3	IN			
Range: 100 A								
50 mV	49.88	49,99	49,99	49,99	49,99	50.12	0,03	A
100.00 mV	99.75	99,99	99,99	99,99	100,00	100,25	0,05	A
200.00 mV	199.50	200,01	200,01	200,01	200,01	200,50	0.1	A
Range: 1000 A								
50.00 mV	49,88	50,01	50,00	50,00	50,01	50,12	0,03	A
1000.0 mV	997,5	1000,0	1000,0	1000,0	1000,0	1002.5	0.5	A
2000 mV	1995	2000	2000	2000	2000	2005	1	A

Frequency measuring (U1 = 110 V, I1 = 1000 A, U12 = 320 V According to IEC 61000-4-30:2008, Class

Settings	Reference	Low limit	Reading	High limit	Uncertainty	Units
Synchronization: U1, Connection: 4W	60,000	59,990	59,999	60,010	0,005	Hz
	400,00	399,90	400,00	400,10	0,04	Hz
Synchronization: I1, Connection: 4W	60,000	59,990	59,999	60,010	0,005	Hz
Synchronization: U12, Connection: 3W	60,000	59,990	59,999	60,010	0,005	Hz

All results in accordance with technical specification.

Reference Instruments:

No.	Instrument	Type	Certificate No.	Due
1	Reference multimeter	8508A, Fluke	082769	30. 09. 2024

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