

Calibration certificate 25017665

Certificate

Pages: 1
Date of release: 07/01/2025
Validity:
Consignee:
Request:
Date of request:
Date of putting into service:
(to be filled in by the final customer)
Next calibration date:
(to be filled in by the final customer)
Subject
Manufacturer: HT ITALIA
Type: MACROTEST
Model: G3
Serial no.: 25017665
Accuracy class: See instruction manual
Instrument specifications: See instruction manual

The test results reported in the calibration certificate of the instrument under reference were obtained using samples and measuring instruments whose traceability dates back to the standard instrument provided with calibration certificate as below indicated:

Standard instrument	Calibration certificate
Wv 9100	ACCREDIA 11318/31/10/2024

Tests were carried out at the room temperature of 23°C ±5°C with relative humidity of 60% ± 10%.
 Tests were carried out according to IOP_54x0calibration and M_MacroTestG3_en procedures.
 In view of the whole chain of traceability, the symmetrical uncertainties more and less, referred to the numerical values reported in the certificate, are the following:

For AC voltage: 0.020%
 For DC voltage: 0.009%
 For AC current: 0.16%
 For DC current: 0.16%
 For resistance: 0.010%
 For reference conditions:
 Frequency: 0.5%
 For room humidity: 2.5%
 For room temperature: 1K

Result table

Ref	Function	Nominal Value	Lower limit	Reading	Upper limit	Tolerance
1	Outlook, BAT indication, key and RS232			OK ✓		
2	RPE	0.00Ω	0.00Ω	0.00	0.03Ω	0.03Ω
		50.00Ω	47.2Ω	50.0	52.8Ω	2.8Ω
	Current@Ubat=9V >200 mA on 5Ω			OK ✓		
3	MΩ @500V	0.5MΩ	0.47MΩ	0.50	0.53MΩ	0.03 MΩ
		100MΩ	97.8MΩ	99.9	102.2MΩ	2.2 MΩ
4	MΩ @1000V	1.0MΩ	0.96MΩ	1.00	1.04MΩ	0.04 MΩ
		1500MΩ	1423MΩ	1498	1577MΩ	77 MΩ
	Test Current >1mA @ Vnom/(1kΩ x Vnom)			OK ✓		
	Test voltage 50, 100, 250, 500, 1000 V -0 ÷ +10%			OK ✓		
5	RCD	30mA	30.0mA	30.4	31.5mA	1.5 mA
	Current Time	15ms	13ms	15	17ms	2 ms
6	No trip @30mA	5Ω	2Ω	5	8Ω	3Ω
7	LOOP P-P, P-N	0.30Ω	0.26Ω	0.29	0.34Ω	0.04Ω
		22.0Ω	20.6Ω	21.9	23.4Ω	1.4Ω
8	LOOP P-PE	1.00Ω	0.92Ω	1.00	1.08Ω	0.08Ω
		100Ω	94.7Ω	100.1	105.3Ω	5.3Ω
9	No trip LOOP	1.00Ω	0.85Ω	1.00	1.15Ω	0.15Ω
		100.0Ω	94.0Ω	100.0	106.0Ω	6.0Ω
10	Phase sequence indication			OK ✓		
11	LEAKAGE	10.0mA	8mA	10	12mA	2 mA
		950.0mA	939mA	948	961mA	11 mA
12	AUXILIARY	10.0mV	9.8mV	9.9	10.2mV	0.2 mV
		950.0mV	940.3mV	947.8	959.7mV	9.7 mV
13	EARTH	0.50Ω	0.45Ω	0.50	0.55Ω	0.05Ω
		50.0Ω	47.2Ω	50.0	52.8Ω	2.8Ω
		5.00kΩ	4.72kΩ	5.00	5.28kΩ	0.28kΩ
14	POWER	115.0kW	113.3kW	115.0	116.7kW	1.7kW
	Voltage	230.0V	228.7V	230.0	231.3V	1.3V
	Current @FS1000A	500A	493A	500	507A	7A
	Power Factor	1.00	0.99i	1.00	0.99c	0.01