

校准报告

Report of Calibration

证书编号: AM20160303PX1001

Certificate No: AM20160303PX1001

仪表名称: 多功能过程校准仪

Product: Multifunction Process Calibrator

型号/规格: AMPX1

Model/Type: AMPX1

制造厂商: 深圳艾默仪具有限公司

Manufacturer: SHENZHEN AIMOMETER CO.,LTD

地址: 深圳市龙岗区振业城二期 5-7-2 单元 803

Address: 803# Building 5-7-2, 2nd Zhenyecheng, Longgang, Shenzhen, Guangdong, China.

校准的地点及环境条件(Place and environmental condition in the calibration):

地点: 本公司实验室

Place: Laboratory of AIMOMETER

温度: 21℃

Temperature: 21℃

湿度: 56%RH

Relative Humidity: 56%RH

校准所用的主要计量标准器具(Main Standards of Measurement Used in the Calibration):

名称	证书编号	编号	有效期至
Description	Certificate No.	Serial No.	Due date
数字万用表	143404719	TM3-026	2016-12-26
多功能校准仪	DBS201500538	TM3-038	2016-10-09

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1. 外观及工作性能检查:

符合/P

(Appearance & Working Performance Check)

直流电压 (DC voltage):

量程 (Rang)	标准值 (standard value)	示 值 Indication Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
400mV	40 mV	39.7 mV	-0.75%	±0.8%	P
	200mV	199.2 mV	-0.2%	±0.8%	P
4.000V	1.000V	0.999 v	-0.1%	±0.5%	P
	3.000V	2.996 v	-0.13%	±0.5%	P
40.00V	10 .00V	10.01 v	+0.01%	±0.5%	P
	30.00V	30.02 v	+0.01%	±0.5%	P
400.0V	100.0 V	100.2 v	+0.2%	±0.5%	P
	300.0V	300.5 v	+0.2%	±0.5%	P
600.0V	500 V	498	-0.4%	±0.5%	P
	600V	596	-0.0%	±0.5%	P

交流电压 (AC voltage):

量程 (Rang)	标准值 (standard value)	示 值 Indication Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
400mV	40 mV	40.2mV	+0.5%	±1%	P
	200mV	200.4mV	+0.2%	±1%	P
4.000V	1.000V	0.997 v	-0.3%	±0.8%	P
	3.000V	2.994 v	-0.2%	±0.8%	P
40.00V	10 .00V	9.98 v	-0.2%	±0.8%	P
	30.00V	29.97 v	-0.1%	±0.8%	P
400.0V	100.0 V	100.3 v	+0.3%	±0.8%	P
	300.0V	300.8v	+0.25%	±0.8%	P
600.0V	500 V	501 v	+0.2%	±0.8%	P
	600V	6003	+0.5%	±0.8%	P

直流电流输入（DC current）:

量程 (Rang)	标准值 (standard value)	示 值 Indication Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
400 μ A	100 μ A	100.3 μ A	+0.3%	$\pm 0.8\%$	P
	300 μ A	300.8 μ A	+0.3%	$\pm 0.8\%$	P
4000 μ A	1000 μ A	1002 μ A	+0.2%	$\pm 0.8\%$	P
	3000 μ A	3006 μ A	+0.2%	$\pm 0.8\%$	P
40.00mA	10.00mA	9.98mA	-0.2%	$\pm 0.8\%$	P
	30.00mA	29.97mA	-0.1%	$\pm 0.8\%$	P
400.0mA	100.0mA	99.7mA	-0.3%	$\pm 0.8\%$	P
	300.0mA	299.5mA	-0.2%	$\pm 0.8\%$	P
10A	5 A	5.04 A	+0.8%	$\pm 1.2\%$	P
	10A	10.08A	+0.8%	$\pm 1.2\%$	P

交流电流（DC voltage）:

量程 (Rang)	标准值 (standard value)	示 值 Indication Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
400 μ A	100 μ A	100.5 μ A	+0.5%	$\pm 1.0\%$	P
	300 μ A	301.2 μ A	+0.4%	$\pm 1.0\%$	P
4000 μ A	1000 μ A	1004 μ A	+0.4%	$\pm 1.0\%$	P
	3000 μ A	3010 μ A	+0.3%	$\pm 1.0\%$	P
40.00mA	10.00mA	9.95mA	-0.5%	$\pm 1.0\%$	P
	30.00mA	29.92mA	-0.3%	$\pm 1.0\%$	P
400.0mA	100.0mA	99.9mA	-0.1%	$\pm 1.0\%$	P
	300.0mA	299.6mA	-0.1%	$\pm 1.0\%$	P
10A	5 A	5.03 A	+0.6%	$\pm 3\%$	P
	10A	10.07A	+0.7%	$\pm 3\%$	P

电阻测量（Resistance）:

量程 (Rang)	标准值 (standard value)	示 值 Indication Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
400 Ω	200.0 Ω	200.3 Ω	+0.6%	$\pm 1\%$	P
4.000K Ω	2.000k Ω	2.005k Ω	+0.3%	$\pm 1\%$	P
40.00K Ω	20.00K Ω	20.01K Ω	+0.05%	$\pm 1\%$	P
400.0K Ω	200.0K Ω	200.2K Ω	+0.1%	$\pm 1\%$	P
4.000M Ω	2.000M Ω	2.006M Ω	+0.3%	$\pm 1.2\%$	P
40.00M Ω	20.00M Ω	20.10M Ω	+0.5%	$\pm 1.2\%$	P

电容测量 (Capacitance):

量程 (Rang)	标准值 (standard value)	示 值 Indication Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
40.00nF	10.00nF	10.15nF	+1.5%	±4%	P
	30.00nF	30.40nF	+1.3%	±4%	P
400.0nF	100.0nF	101.0nF	+1%	±4%	P
	300.0nF	304.0nF	+1.3%	±4%	P
4.000 μ F	1.000 μ F	1.005 μ F	+0.5%	±4%	P
	3.000 μ F	3.010 μ F	+0.3%	±4%	P
40.00 μ F	10.00 μ F	9.95 μ F	-0.5%	±4%	P
	30.00 μ F	29.80 μ F	-0.6%	±4%	P
100.0 μ F	100.0 μ F	98.0 μ F	-2%	±4%	P

频率测量 (Frequency):

量程 (Rang)	标准值 (standard value)	示 值 Indication Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
50.00Hz	30.00Hz	29.99Hz	-0.06%	±0.8%	P
500.0Hz	300.0Hz	300.1Hz	+0.06%	±0.8%	P
5.000kHz	3.000kHz	3.001kHz	+0.03%	±0.8%	P
50.00kHz	30.00kHz	30.01kHz	+0.03%	±0.5%	P
500.0kHz	300.0kHz	300.0kHz	+0.0%	±0.5%	P
5.000MHz	3.000MHz	3.001MHz	+0.03%	±0.5%	P

直流电流输出 (DC current output):

量程 (Rang)	标准值 (standard value)	实测值 Measured Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
24mA	2mA	2.0011mA	+0.0011mA	±0.004mA	P
	5mA	4.9998mA	-0.0002mA	±0.005mA	P
	10mA	10.0002mA	+0.0002mA	±0.006mA	P
	15mA	15.0015mA	+0.0015mA	±0.007mA	P
	20mA	19.9994mA	+0.0006mA	±0.008mA	P
	24mA	23.9986mA	+0.0014mA	±0.009mA	P

直流电压输出 (DC voltage output):

量程 (Rang)	标准值 (standard value)	实测值 Measured Val.	误 差 Error	允 差 MPE	结论 Pass/Fail
100mV	10mV	9.995mV	-0.005mV	±0.022mV	P
	50mV	50.005mV	+0.005mV	±0.030mV	P
	100mV	100.035mV	+0.035mV	±0.040mV	P
10V	1V	1.0003V	+0.003V	±0.022mV	P
	5V	4.9998V	-0.002V	±0.030mV	P
	10V	9.9985V	-0.0015V	±0.040mV	P