

Certificate of Calibration

Certificate No: CAL-16-20 [REDACTED]
Manufacturer: tech4u
Description: P1 port certifier
Model: P1C-003 R6
Serial no: SN-[REDACTED]
Date of calibration: 2017-09-09
Temperature: (24 ± 2) C°
Humidity: (40 to 70) % RH

“DATA Line” load generation:

Set load (target)	Measured load	Deviation	Accuracy	Priority
10.0 mA	10.5 mA	0.5 mA	5.0%	
20.0 mA	20.3 mA	0.3 mA	1.3%	
30.0 mA	29.9 mA	-0.1 mA	-0.2%	(*)
40.0 mA	39.6 mA	-0.4 mA	-0.9%	

“DRQ Line” voltage generation:

Set voltage (target)	Measured voltage	Deviation	Accuracy	Priority
5.0 V	5.002 V	0.002 V	0.0%	(*)
4.0 V	3.995 V	-0.005 V	-0.1%	
3.0 V	2.989 V	-0.011 V	-0.4%	
2.0 V	1.986 V	-0.014 V	-0.7%	

“DRQ Line” current measurement:

<i>Measured current (target)</i>	<i>Read by P1C-003</i>	<i>Deviation</i>	<i>Accuracy</i>	<i>Priority</i>
10.10 mA	10.12 mA	0.02 mA	0.2%	
8.07 mA	8.08 mA	0.01 mA	0.1%	
6.04 mA	6.05 mA	0.01 mA	0.2%	(*)
4.01 mA	4.03 mA	0.02 mA	0.4%	

“+5V Line” Load generation:

<i>Set load (target)</i>	<i>Measured load</i>	<i>Load read by P1C-003</i>	<i>Deviation in load generation</i>	<i>Deviation in load measurement</i>	<i>Accuracy in load generation</i>	<i>Accuracy in load measurement</i>	<i>Priority</i>
50 mA	52.50 mA	53.70 mA	2.50 mA	1.20 mA	5.0%	2.3%	
100 mA	98.50 mA	99.70 mA	-1.50 mA	1.20 mA	-1.5%	1.2%	
150 mA	145.95 mA	147.58 mA	-4.05 mA	1.63 mA	-2.7%	1.1%	
200 mA	195.00 mA	196.65 mA	-5.00 mA	1.65 mA	-2.5%	0.8%	
250 mA	245.50 mA	247.55 mA	-4.50 mA	2.05 mA	-1.8%	0.8%	
300 mA	297.50 mA	299.98 mA	-2.50 mA	2.48 mA	-0.8%	0.8%	(*)
350 mA	350.00 mA	353.30 mA	0.00 mA	3.30 mA	0.0%	0.9%	

Voltage measurement:

<i>Set voltage (target)</i>	<i>Set voltage measured at P1C-003 input</i>	<i>Measured by P1C-003 device</i>	<i>Deviation</i>	<i>Accuracy</i>	<i>Priority</i>
6.0 V	5.997 V	6.002 V	0.005 V	0.08%	
5.5 V	5.497 V	5.502 V	0.005 V	0.09%	
5.0 V	4.998 V	4.998 V	0.000 V	0.00%	(*)
4.5 V	4.497 V	4.501 V	0.004 V	0.09%	
4.0 V	3.998 V	4.000 V	0.002 V	0.05%	
2.0 V	1.998 V	1.996 V	-0.002 V	-0.10%	
1.5 V	1.497 V	1.498 V	0.001 V	0.07%	
1.0 V	0.997 V	0.997 V	0.000 V	0.00%	
0.5 V	0.498 V	0.497 V	-0.001 V	-0.20%	
0.1 V	0.098 V	0.096 V	-0.002 V	-2.04%	

Calibration equipment used:

<i>Model</i>	<i>Description</i>	<i>Serial number</i>	<i>Cal due date</i>	<i>Used date</i>
AgilentU1231A	Digital true RMS Multimeter	MY54160062	2018-04-01	2017-09-09
Rigol DP832	Programmable DC Power Supply	DP8C181701148	2018-04-01	2017-09-09

Date: 2017-09-09

Approved by:

