



Three Phase Compact Smart Meter Calibration Report

Report number: EC2018008702

Issued date: 2018/06/04

Laboratory: Electrical and Temperature Calibration Laboratory Address: No.6-6, Ronggong S Rd., Guanyin Township, Taoyuan

County 328, Taiwan, R.O.C.

Laboratory Accreditation Number: 0061



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Electrical and Temperature Calibration Laboratory Report No. : EC2018008702

Calibration Report

Applicant: ICP DAS Co., Ltd.

Issued

Date: 2018/06/04

Address: No. 111, Guangfu N. Rd., Hukou Township,

Hsinchu County 30351, Taiwan, (R.O.C.)

Calibration Date: 2018/05/24

Equipment: Power Meter

Temperature :23 ± 2℃

Manufacturer: ICP DAS

Humidity $50 \pm 10\%$

Model No.: PM-3133-240 Procedure

60I-07-1812.60I-07-1818

Serial

No.: PM3133CCR0kuJBR00022

Remark: 1. Calibration items with the external current transformer(CT1, CT2, CT3) which Manufacturing number are the

same as serial No. of the equipment).

2. The reading was obtained from the RS485 communication interface of the calibration product and the

computer software(ICP DAS PM-3133 ver1.17) of the manufacturer.

Calibration Standard:

Equipment	Manufacturer / Model No.	I.D. Number	Cal. Source / Cal. Date/ Report No/Cycle o
Three-Phase Watt/Var.	RADIAN/RD-30-211	300130	TERTEC / 107.03.16 / EC1070012 /1 year
Multifunction Standard	FLUKE/5500A	6670008	Pink Technology / 2017.08.15/P708046-C/1 year

- Calibration Item & Result:

1. AC Watt (60Hz)

Item -	Setting			Standard(kW)	Reading(kW)	Error(%)	Uncertainty(%)
	Voltage(V)	Current (A)	P.F	Standard(KW)	Reading(KW)	EHUI(76)	Oncertainty (78)
A Phase	220	5	1.0	1.1000	1.0973	-0.25	0.19
B Phase	220	5	1.0	1.1000	1.0992	-0.08	0.19
C Phase	220	5	1.0	1.1000	1.0990	-0.09	0.19

2. AC Voltage (60Hz)

Item	Standard (V)	Reading (V)	Error(%)	Uncertainty(%)
A Phase	100.0000	99.9938	-0.01	0.19
B Phase	100.0000	99.9910	-0.01	0.19
C Phase	100.0000	99.9885	-0.01	0.19

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60T-07-1803B

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Calibration Report

二、Instruction:

- 1. Calibration method is refer to the laboratory Watt calibration instructions, It uses adjustable Multi-Function Standard to calculate error (%).
- 2. Calibration method is refer to the laboratory AC current calibration instructions, use stable AC power to source to calculate error (%).
- 3. Error(%)=((EUUT ESTD)/ESTD) \times 100%.
- 4. The level of confidence of Expanded Uncertainty is 95% and the coverage factor k=2.
- 5. The use of standard calibration devices is traced back to National Measurement Laboratory(Report No. E170502A, traceable data 2017-08-29, calibration cycle is 1 year) and Pink Technology Co. Ltd (Report No. P708046-C, traceable data 2017-08-15, calibration cycle is 1 year).

60T-07-1803B