

Certificate No.

24PTP_0104240281

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Certificate of Calibration

EQUIPMENT : ELECTROSURGICAL UNITS

ID CODE : PTP00600

MANUFACTURER : COVIDIEN

MODEL : FORCE FX-8CS

SERIAL No. : S4L16224AX

LOCATION : Operating Room

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 24 APRIL 2024

ISSUE DATE : 1 MAY 2024

Kanittha.

2,1024

KANITTHA SRIPRAPAD

Performed by :

PHUWASIN YIWKIM

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Approved by:

CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEElectrosurgeryFluke BiomedicalQA-ES III572872623MD85221 Jun 2024Analyzer

2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)

3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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Calibration Report

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SERIAL No. : S4L16224AX

DATE OF CALIBRATION : 24 APRIL 2024

ENVIRONMENT : TEMPERATURE 23 °C

RELATIVE HUMIDITY 50 %

PROCEDURE USED:

This instrument was calibration by comparison with standard

MEASURMENT RESULT:

/	Without Adjustment		Before Adjustment		After Adjustment
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Energy Monopolar/Cut					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(Watt)	(Watt)	(Watt)	(%)	(Watt)	
20	17.30	-2.70	-13.50	± 1.1547	
50	45.30	-4.70	-9.40	± 2.8868	
100	87.70	-12.30	-12.30	± 5.7737	
200	178.00	-22.00	-11.00	± 11.5473	
300	267.00	-33.00	-11.00	± 17.3210	

Energy Monopolar/Coag					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(Watt)	(Watt)	(Watt)	(%)	(Watt)	
20	20.90	0.90	4.50	± 1.1547	
50	50.20	0.20	0.40	± 2.8868	
80	79.10	-0.90	-1.13	± 4.6189	
100	99.30	-0.70	-0.70	± 5.7737	
120	119.00	-1.00	-0.83	± 6.9284	

Energy Bipolar				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
(Watt)	(Watt)	(Watt)	(%)	(Watt)
10	9.20	-0.80	-8.00	± 0.5774
30	27.30	-2.70	-9.00	± 1.7321
50	44.80	-5.20	-10.40	± 2.8868

2301/2 New Petchburi Soi 47 (soonvijai), Bangkapi, Huaykwang, Bangkok 10310 Tel: (66) 2762 4000 Fax: (66) 2762 4072

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SERIAL No. : S4L16224AX

Energy Bipolar (Continues)						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(Watt)	(Watt)	(Watt)	(%)	(Watt)		
60	53.60	-6.40	-10.67	± 3.4642		
70	63.00	-7.00	-10.00	± 4.0416		

UUC*: Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%

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