

## Form B03

## Scheduled Maintenance Work Order



Quantum Medical Solutions sdn bhd  
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Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO371808	Schedule Month	March 2018
Work Order Date	01/03/2018	Completed Date	29/3/2018
Clinic Name	Klinik Pergigian Di Klinik Kesihatan Labuan	Clinic Code	WPL001
BE No.	WPL000089	Distict	LABUAN
BE Category	Sterilizing Units, Portable	WO Assigned to	Che Muhammad Atillah
Ownership	<input checked="" type="checkbox"/> Existing Equipment	<input type="checkbox"/> Purchase	<input type="checkbox"/> New
BE Condition	<input checked="" type="checkbox"/> Active	<input type="checkbox"/> BER Proposed	
Work Order Type	<input checked="" type="checkbox"/> Preventive Maintenance (PM)	<input type="checkbox"/> Third Party Calibration (TPC)	
	<input type="checkbox"/> Routine Inspection (RI)	<input type="checkbox"/> Statutory Certification (SC)	

Reschedule Date	
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BE Third Party Calibration / Statutory Certification Details			
Company Name		Cal / Cert Date	
Contact Number	NA	Cal / Cert Expiry Date	NA
<b>Action Taken</b> ↳ Check chassis, fittings, PCB Board, fuse, door gasket and valve ↳ Clean exterior and interior. Do some alignment. ↳ Perform test. Unit perform well (functioning Good)			

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	MOHD. ASHIMAWI B MOHD HISHAM BIOMEDICAL TECHNICIAN, QMS 019-2534231	29/3/2018	9.30am	10.30am
Customer Remarks				
Engineer / Technician Signature Name Date		Customer Signature Name Designation Date Seal		
MOHD. ASHIMAWI B MOHD HISHAM BIOMEDICAL TECHNICIAN, QMS 019-2534231 29/3/2018		HERMAN NOWI Juruteknologi Pergigian Klinik Pergigian Labuan 29/3/18		



For Internal Use

First Verification  
QMS Circle Incharge

JULIUS LIANSUN  
BIOMEDICAL ENGINEER, QMS  
019-3620179

Final Verification  
QMS State Incharge

DIGI SY LIFE  
LABUAN STATE MANAGER  
DIGI SY LIFE



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## Quantum Medical Solutions Sdn Bhd

BEMS Planned Preventive Maintenance Checklist

Sterilizing units, Portable

BE CODE : DE-031

CHECKLIST NO: CL-147  
REV.000

### PART 1 ASSET DETAILS

WORK ORDER NO ▶ *pus 371808* ASSET NO ▶ *WPL000089*  
MANUFACTURER ▶ *n/w* MODEL ▶ *n/w*  
FREQUENCY ▶ 3 MONTHLY ( ) 6 MONTHLY ( ) 12 MONTHLY ( ☒ ) PPM HOURS ▶ *f-o*

### PART 2 SPECIAL PRECAUTION

If there is evidence of body fluid contamination, submit the device for cleaning and decontamination before inspecting it.  
Wear appropriate Personnel Protection Equipment (PPE) during work.  
Wear grounded electrostatic wristband when handling PCB or electronic components.  
Refer to the safety procedure for additional precautions and guidance as per manufacturer guidelines.  
Make sure the test equipment used are duly calibrated.

### PART 3 TEST APPARATUS

Tick (✓) where appropriate

NO	ASSET NO	DESCRIPTION	SERIAL NO	CALIBRATION DUE ON
	<i>TESTA00085</i>	ELECTRICAL SAFETY ANALYZER	<i>3227039</i>	<i>10/1/2019</i>
	<i>NA</i>	PRESSURE METER	<i>NA</i>	<i>NA</i>
	<i>NA</i>	THERMOMETER	<i>NA</i>	<i>NA</i>

### PART 4 QUALITATIVE TASKS


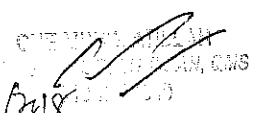
Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	( <input checked="" type="checkbox"/> )	( )	( )	9 Seal - Verify physical integrity	( <input checked="" type="checkbox"/> )	( )	( )
2 Power Cord - verify proper insulation and integrity	( <input checked="" type="checkbox"/> )	( )	( )	10 Sensor - Verify proper operation	( <input checked="" type="checkbox"/> )	( )	( )
3 Strain Relief - verify physical integrity at both ends of line cord	( <input checked="" type="checkbox"/> )	( )	( )	11 Cassette lid/Tay - Verify physical integrity	( <input checked="" type="checkbox"/> )	( )	( )
4 Fittings/ Connectors - check all fittings/connectors	( <input checked="" type="checkbox"/> )	( )	( )	12 Solenoid valve - Verify proper operation	( <input checked="" type="checkbox"/> )	( )	( )
5 Controls/Switches - verify proper operation of controls	( <input checked="" type="checkbox"/> )	( )	( )	13 Reservoir - Verify physical integrity	( <input checked="" type="checkbox"/> )	( )	( )
6 Indicators/ Displays - verify proper illumination and operation	( <input checked="" type="checkbox"/> )	( )	( )	14 Check drain valve -Physical integrity	( <input checked="" type="checkbox"/> )	( )	( )
7 Check Thermal fuse, circuit breaker	( <input checked="" type="checkbox"/> )	( )	( )	15 Check Safety valve	( )	( )	( )
8 Heater - verify physical Integrity	( <input checked="" type="checkbox"/> )	( )	( )	16 Calibration	( )	( )	( <input checked="" type="checkbox"/> )

### PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE**	NA		DONE	NOT DONE**	NA
1 Clean exterior and interior of the equipment	( <input checked="" type="checkbox"/> )	( )	( )	5 Cassette seal/Lid or tray - Check/Replace***	( <input checked="" type="checkbox"/> )	( )	( )
2 Thermal fuse - Check / replace***	( <input checked="" type="checkbox"/> )	( )	( )	Notes:  * For all Parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable			
3 Check/ clean solenoids	( )	( )	( )				
4 Lubricate all moving parts	( <input checked="" type="checkbox"/> )	( )	( )				

 Quantum Medical Solutions Sdn Bhd <small>Preserving lives, enhancing life</small>	<b>Quantum Medical Solutions Sdn Bhd</b> <b>BEMS Planned Preventive Maintenance Checklist</b> <b>Sterilizing units, Portable</b> BE CODE : DE-031	CHECKLIST NO: CL-147 REV.000						
WORK ORDER NO ▶ <u>PWS 3701808</u>								
<b>PART 6 QUANTITATIVE TASKS</b>								
<i>Tick (✓) where appropriate</i>								
No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Temperature reading	°C			NA	( )	( )	(✓)
2	Pressure reading	psi			NA	( )	( )	(✓)
3	Timer	sec			NA	( )	( )	(✓)
<b>PART 7 ELECTRICAL SAFETY TEST</b>								
ELECTRICAL SAFETY TEST, (attach report) <small>(In accordance to IEC 60601)</small> <div style="display: flex; justify-content: space-around; align-items: center;"> <input checked="" type="checkbox"/> PASS           <input type="checkbox"/> FAIL           <input type="checkbox"/> NA         </div>								
<b>PART 8 NOTES</b>								
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <input type="checkbox"/> CORRECTIVE MAINTENANCE REQUIRED            WORK ORDER NO ▶ <u>NA</u> </div> <div> <input checked="" type="checkbox"/> FUNCTIONING           </div> <div> <input type="checkbox"/> NOT FUNCTIONING            NEXT PPM DATE ▶ <u>28/3/2019</u> </div> </div>								
PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose. <b>COMPLETED BY:</b> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div>           DATE: <u>24/3/2018</u>   </div> <div style="text-align: right;"> <b>MOHD. ASIMAWI B MOHD HISHAM</b>  <b>BIOMEDICAL TECHNICIAN, QMS</b>  <b>019-2334231</b> </div> </div>								

# Fluke Biomedical

Date 29/03/2018

## Test Setup

Operator ID LBNBME  
Calibration Tech  
Calibration Date 10/01/2019  
Firmware Version 2.08.01  
Serial Number 3227039  
Date & Time 29/03/2018 & 09:34  
JOB Name

## DUT Information

Equipment Number WPL 000089  
Serial Number  
Manufacturer  
Model  
Location KLINIK PERGIGIAN  
Other

## Template Information

Template Name STERILIZING UNITS  
Pause after Power ON NO  
Power ON delay 2  
Test Speed RAPID  
Halt on Test Failure YES  
Include Time YES  
Insulation Resistance Voltage 250V  
Multi Enclosure Test NO

Standard IEC62353-Differential  
Pause before Power OFF NO  
Power OFF delay 0  
Test Mode AUTO  
Multi PE Test NO  
Multi Resstore WORST/LAST  
Reverse Polarity YES  
Classification I

## PLC Configuration-Applied part setup

AP Name AP Type AP Num

## ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Protective Earth Resistance	0.21 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	999 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	241.5 V	-	-	P
Live to Earth	12.3 V	-	-	P
Neutral to Earth	240.3 V	-	-	P
Equipment Current	10.6 A	-	-	P
Differential Leakage				P
Normal Condition	51 uA	500	-	P
Normal Condition-Reversed mains	75 uA	500	-	P

Signature

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