

Form B03

Scheduled Maintenance Work Order



Quantum Medical Solutions sdn bhd
transcending boundaries, transforming life

Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO372163	Schedule Month	March 2018
Work Order Date	01/03/2018	Completed Date	21/3/18
Clinic Name	Klinik Pergigian Sekolah Rendah Jenis	Clinic Code	WPL004
BE No.	WPL000056	Distict	LABUAN
BE Category	Micromotor	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	NA	Cal / Cert Date	NA
Contact Number		Cal / Cert Expiry Date	

Action Taken

Check chasis, mount, cable, fuse, pcb board, cable & handpiece micromotor. Clean exterior and interior. Perform test (refer to checklist)

Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	CHE MUHAMMAD ATILAH	21/3/18	1500	1530

Customer Remarks

Engineer / Technician Signature

Name

Date

CHE MUHAMMAD ATILAH
BIOMEDICAL TECHNICIAN, QMS
019-2572649

21/3/2018

Customer Signature

Name

Designation

Date

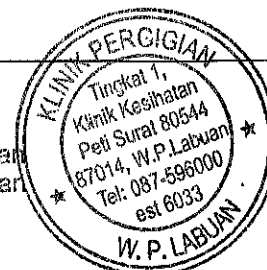
Seal

HERMAN NOWI

Juruteknologi Pergigian

Klinik Pergigian Labuan

20/4/18



For Internal Use

First Verification


QMS Circle Incharge


JULIUS HANSON
BIOMEDICAL ENGINEER, QMS
019-2620275

Final Verification

QMS State Incharge

DICKY LEE
SAGAH STATE MANAGER
QUANTUM MEDICAL SOLUTIONS SDN BHD

 Quantum Medical Solutions sdn bhd <small>transcending boundaries, transforming life</small>	Quantum Medical Solutions Sdn Bhd BEMS Planned Preventive Maintenance Checklist Micromotor BE CODE : DE-019	CHECKLIST NO: CL-096 REV.000					
PART 1 ASSET DETAILS							
WORK ORDER NO ▶ <u>920 392163</u>		ASSET NO ▶ <u>W7-000056</u>					
MANUFACTURER ▶ <u>mlr</u>		MODEL ▶ <u>mlr</u>					
FREQUENCY ▶ 3 MONTHLY () 6 MONTHLY () 12 MONTHLY (/)		PPM HOURS ▶ <u>0.5</u>					
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			
1	<u>1EISA0685</u>	ELECTRICAL SAFETY ANALYZER	<u>3227029</u>	<u>10/1/2019</u>			
2	<u>mlr</u>	TACHOMETER	<u>mlr</u>				
PART 4 QUALITATIVE TASKS							
Tick (✓) where appropriate							
	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(/)	()	()	8 Fittings/ Connectors - check all fittings/connectors	(/)	()	()
2 Mount/ Fasteners - verify physical integrity	(/)	()	()	9 Controls/Switches - verify proper operation of controls	(/)	()	()
3 Motor - verify proper operation physical integrity	(/)	()	()	10 Indicators/ Displays - verify proper illumination and operation	(/)	()	()
4 AC Plug - verify integrity	(/)	()	()	11 Alarms/ Interlocks - check all alarms available	()	()	(/)
5 Power Cord - verify proper insulation and integrity	(/)	()	()	12 Label - verify physical integrity	(/)	()	()
6 Strain Relief - verify physical integrity at both ends of line cord	(/)	()	()				
7 Circuit Breaker/ Fuse - verify integrity of external circuit breaker and/or rating of external fuse	(/)	()	()				
PART 5 PREVENTIVE MAINTENANCE TASKS							
Tick (✓) where appropriate							
	DONE	NOT DONE	NA				
1 Inspect, Clean Interior and Exterior	(/)	()	()	Notes: * For all Parts, NA is defined as NOT APPLICABLE **If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable			
2 Motor - Service/Lubricate if applicable	(/)	()	()				
2 Carbon brush - Check/Replace**	(/)	()	()				

 Quantum Medical Solutions Sdn Bhd Transcending Boundaries. Redefining Life.	Quantum Medical Solutions Sdn Bhd BEMS Planned Preventive Maintenance Checklist Micromotor BE CODE : DE-019	CHECKLIST NO: CL-096 REV.000
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WORK ORDER NO ▶ PWO 372163

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	SPEED	RPM			± 10%	()	()	(✓) ()

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

(In accordance to IEC 60801)

☒ PASS
 ☐ FAIL
 ☐ NA

PART 8 NOTES

Please indicate the part number, description of PPM Kit and any repair work to be carried out (if any) :

<input type="checkbox"/> CORRECTIVE MAINTENANCE REQUIRED	<input checked="" type="checkbox"/> FUNCTIONING	<input type="checkbox"/> NOT FUNCTIONING
WORK ORDER NO ▶ <u>NA</u>	NEXT PPM DATE ▶ <u>20/3/2019</u>	

PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose.

COMPLETED BY:

QMS MEDICAL
 BIO-MEDICAL TECHNICIAN, QMS
 010-2572549

DATE: 21/3/2018

Fluke Biomedical

Date 21/03/2018

Test Setup

Operator ID LBNBME
Calibration Tech
Calibration Date 10/01/2019
Firmware Version 2.08.01
Serial Number 3227038
Date & Time 21/03/2018 & 15:21
JOB Name

DUT Information

Equipment Number WPL 000056
Serial Number
Manufacturer
Model
Location KLINIK PERGIGIAN
Other

Template Information

Template Name MICROMOTOR
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	0.18 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	999 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	241.2 V	-	-	P
Live to Earth	11.7 V	-	-	P
Neutral to Earth	240.1 V	-	-	P
Equipment Current	10.2 A	-	-	P
Differential Leakage				P
Normal Condition	47 uA	500	-	P
Normal Condition-Reversed mains	61 uA	500	-	P



Signature

Fluke Biomedical
010-2000000