

Form B03

Scheduled Maintenance Work Order

Quantum Medical Solutions sdn bhd
transcending boundaries, transforming life

Format Ref. - QMS/TSD-003 Rev. 00

Work Order No	PW0372234	Scheduled Month	FEBRUARY 2018
Work Order Date	1/2/18	Completed Date	12/2/2018
Clinic Name	PAKISTAN CLINIC 1 MALAYSIA	Clinic Code	WPL016
BE No	WPL024137	District	WPL - Labuan
BE Category	SPIGROMANOMETERS, ELECTRONICS	WO Assigned to	Muhammad Asyraf
Ownership	<input type="checkbox"/> Existing Equipment	<input type="checkbox"/> New & Purchased Equipment	
BE Condition	<input type="checkbox"/> Under Warranty	<input type="checkbox"/> BER Proposed	
Work Order Type	<input type="checkbox"/> Preventive Maintenance (PM) <input type="checkbox"/> Routine Inspection (RI)	<input type="checkbox"/> Third Party Calibration (TPC) <input type="checkbox"/> Statutory Certification (SC)	

BE Third Party Calibration / Statutory Certification Details

Company Name		Cal / Cert Date	
Contact Number		Cal / Cert Expiry Date	

Action Taken

↳ Do PPM as per Checklist.

Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	MOHD. AZHARUDDIN MOHD. HUSAM BIOMEDICAL TECHNICIAN, QMS 012-3620179	12/2/2018	3.00pm	3.30pm

Customer Remarks

Engineer / Technician Signature Name Date MOHD. AZHARUDDIN MOHD. HUSAM BIOMEDICAL TECHNICIAN, QMS 012-3620179 12/2/2018	Customer Signature Name Designation Date Stamp HAZZA MAIDIN Penolong Pegawai Perubatan U29
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For Internal Use only

First Verification
QMS Circle Incharge
 JULIUS LIANSUN
 BIOMEDICAL ENGINEER, QMS
 019-3620179
Final Verification
QMS State Incharge
 DICKY LEE
 SABAH STATE MANAGER
 QUANTUM MEDICAL SOLUTIONS SDN BHD



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BEMS Planned Preventive Maintenance Checklist
Sphygmomanometers, Electronic, Automatic
BE CODE : 18-173

CHECKLIST NO: CL-141
REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ▶ **PWO 3A2234** ASSET NO ▶ **WPL 024137**
MANUFACTURER ▶ **N/A** MODEL ▶ **N/A**
FREQUENCY ▶ 3 MONTHLY () 6 MONTHLY () 12 MONTHLY (/) PPM HOURS ▶ **0.50**

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	TEESA 0085	ELECTRICAL SAFETY ANALYZER	3227039	10/1/19
	NA	PRESSURE METER	NA	NA
2	TEESA 0187	NON-INVASIVE BLOOD PRESSURE ANALYZER	3233027	4/3/18

PART 4 QUALITATIVE TASKS


Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(/)	()	()	8 Indicators/ Displays - verify proper illumination and operation	(/)	()	()
2 Mount/ Fasteners - verify physical integrity	(/)	()	()	9 Alarm - verify proper operation and automatic activation	(/)	()	()
3 Power Cord - verify proper insulation and integrity	(/)	()	()	10 Hoses & Cuff - verify physical integrity and cleanliness	(/)	()	()
4 Strain Relief - verify physical integrity at both ends of line cord	(/)	()	()	11 Calibration	()	()	(/)
5 Circuit Breaker/ Fuse - verify integrity of external circuit breaker and/or rating of external fuse	(/)	()	()				
6 Fittings/ Connectors - check all fittings/connectors	(/)	()	()				
7 Controls/Switches/Keypad - verify proper operation of controls.	(/)	()	()				

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE	NA	Notes:
1 Clean exterior and interior of the equipment	(/)	()	()	* For all Parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable
2 Battery - check / <u>replace</u> ***	(/)	()	()	

 Quantum Medical Solutions sdn bhd <small>Transforming Healthcare, Improving Lives</small>	Quantum Medical Solutions Sdn Bhd BEMS Planned Preventive Maintenance Checklist Sphygmomanometers, Electronic, Automatic BE CODE : 16-173	CHECKLIST NO: CL-141 REV.000
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WORK ORDER NO ▶ PW-372234

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Blood pressure accuracy	mmHg	100	99	96 - 104	(✓)	()	()
		mmHg	65	67	61 - 69	(✓)	()	()
		mmHg	120	121	116 - 124	(✓)	()	()
		mmHg	80	81	76 - 84	(✓)	()	()
		mmHg	150	152	146 - 154	(✓)	()	()
		mmHg	100	101	96 - 104	(✓)	()	()
2	Pulse rate accuracy	bpm	60	60	57 - 63	(✓)	()	()
		bpm	80	80	76 - 84	(✓)	()	()
		bpm	120	120	114 - 126	(✓)	()	()

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

(in accordance to IEC 60601)

☒ PASS
 ☐ FAIL
 ☐ NA

PART 8 NOTES

EST Class II.

HAIZZA MAJIDIN
 Penolong Pegawai Perubatan U29

☐ CORRECTIVE MAINTENANCE REQUIRED
 ☒ FUNCTIONING
 ☐ NOT FUNCTIONING

WORK ORDER NO ▶ NA

NEXT PPM DATE ▶ 11/2/2019

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

COMPLETED BY: MOHD. AMMAR S FOND HOSLEY
 BIOMEDICAL ENGINEERING, AMS

DATE: 12/2/2018

Fluke Biomedical

Date 12/02/2018

Test Setup

Operator ID LBNBME
Calibration Tech
Calibration Date 10/01/2019
Firmware Version 2.08.01
Serial Number 3227039
Date & Time 12/02/2018 & 15:18
JOB Name

DUT Information

Equipment Number WPL 024137
Serial Number
Manufacturer
Model
Location K1M
Other

Template Information

Template Name	SPHYGMOMANOMETERS, ELECTRONIC	Standard	IEC62353-Differential
Pause after Power ON	NO	Pause before Power OFF	NO
Power ON delay	2	Power OFF delay	0
Test Speed	RAPID	Test Mode	AUTO
Halt on Test Failure	YES	Multi PE Test	NO
Include Time	YES	Multi Resstore	WORST/LAST
Insulation Resistance Voltage	250V	Reverse Polarity	YES
Multi Enclosure Test	NO	Classification	II

PLC Configuration-Applied part setup

AP Name AP Type AP Num

ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Mains Voltage				P
Live to Neutral	240.8 V	-	-	P
Equipment Current	0.0 A	-	-	P
Differential Leakage				P
Normal Condition	25 uA	100	-	P
Normal Condition-Reversed mains	39 uA	100	-	P

Signature

MOHAMMAD HISHAM
ELECTRICIAN, QMS
0147336231