

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.	PWO365113	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	26/6/18
Clinic Name	Klinik Kesihatan Batu Pahat	Clinic Code	JHR003
BE No.	JHR025205	Distict	BATU PAHAT
BE Category	ANALYZERS, LABORATORY, HEM	WO Assigned to	Farhan
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		Cal / Cert Expiry Date	
Action Taken <input checked="" type="checkbox"/> PM / RI job done as per checklist. Unit tested functioning good & ready to use. Manufacturer: Vital Diagnostics <input type="checkbox"/> Corrective Maintenance / <input type="checkbox"/> Breakdown Modal: Micro SD BE Sticker Availability: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> NA Serial No: 062X Remarks:			

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	Farhan	26/6/18	Low	1100

Customer Remarks
NA

Engineer / Technician Signature Name: MOHD NAJIB FARHAN B. ISMAIL Date: 26/6/18 BIOMEDICAL ENGINEER (012-396 7048) QUANTUM MEDICAL SOLUTIONS SDN. BHD.	Customer Signature Name: AFIZA BINTI ABD. AZIZ Designation: Juruteknologi Makmal Perubatan U32 (KUP) Date: 8/7/2018 Seal: Klinik Kesihatan Batu Pahat
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For Internal Use

RAZILA BINTI MISKAN
BIOMEDICAL ENGINEER

First Verification
QMS Circle Incharge

Final Verification
QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Analyzers, Laboratory, Hematology, Erythrocyte Aggregation
BE CODE : 17-483

CHECKLIST NO: CL-017-000
REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ▶ Pw0 365113 BE NO ▶ JALOR 205
MANUFACTURER ▶ MODEL ▶ M1254
FREQUENCY ▶ 6 MONTHLY (✓) 12 MONTHLY () PPM HOURS ▶ 1.00

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
	TEESA0014	ELECTRICAL SAFETY ANALYZER	3276906	9/10/13

PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	()	()	8 Sample Positions -Verify Physical Integrity	(✓)	()	()
2 Mount/ Fasteners - verify physical integrity	()	()	(✓)	9 Fan / Motor - Verify Physical Integrity and Proper Operation	(✓)	()	()
3 Power Cord/ Power Adapter - verify proper insulation and integrity	(✓)	()	()	10 Printer System - Verify Physical Integrity	()	()	(✓)
4 Strain Relief - verify physical integrity at both ends of line cord	(✓)	()	()	11 Optical Sensor - Verify Integrity	(✓)	()	()
5 Fittings/ Connectors - Check all Fittings/ Connectors	()	()	(✓)				
6 Controls /Switches -Verify proper operation of controls	(✓)	()	()				
7 Indicators / Displays -Verify Proper Operation	(✓)	()	()				

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA	Notes:
1 Clean the Exterior	(✓)	()	()	* For all Parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable
2 Inspect / Clean Interior of unit	(✓)	()	()	
3 Lubricate	(✓)	()	()	



KEMENTERIAN KESIHATAN MALAYSIA

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WORK ORDER NO ▶

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
	QC Result (Attach Result)					()	()	()

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

Tick (✓) where appropriate

Standard use :

☒ IEC 60601

☐ IEC 61010

☐ IEC 62353

Result :

☒ PASS

☐ FAIL

☐ NA

PART 8 NOTES

☐ CORRECTIVE MAINTENANCE REQUIRED

☒ FUNCTIONING

☐ NOT FUNCTIONING

WORK ORDER NO ▶

NEXT PPM DATE ▶ Dec 18

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

COMPLETED BY:

Faher

DATE : 26/Jul/18

Test Setup

Operator ID :
Calibration Tech : DINA
Calibration Date : 9/10/2017
Firmware Version : 2.08.01
Serial Number : 3226906
Date & Time : 06/26/2018 & 10:41
JOB Name :

DUT Information

Equipment Number : JHR025205
Serial Number : 6285
Manufacturer : VITAL DIAGNOSTICS
Model : MICROSED
Location : KK BATU PAHAT
Other :

Template Information

Template Name : JHR025205
Pause after Power ON: NO
Power ON delay: 2
Test Speed: NORMAL
Halt on Test Failure: YES
Include Time: YES
Insulation Resistance \geq 500V
Multi Enclosure Test : NO

Standard : IEC60601-1-2nd Ed
Pause before Power Off: NO
Power OFF delay: 0
Test Mode: AUTO
Multi PE Test: NO
Multi Resstore: WORST/LAST
Reverse Polarity: YES
Classification: II

PLC Configuration-Applied part setup

AP Name AP Type AP Num

ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Insulation Resistance				P
Mains to Non-Earth Accessible Conductive Part	999 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	251.9 V	-	-	P
Equipment Current	0.0 A	-	-	P
Enclosure Leakage Current				P
Normal Condition	0.5 uA-OPI	100	-	P
Open Neutral	0.6 uA-OPI	500	-	P
Open Neutral- Reversed Mains	0.7 uA-OPI	500	-	P
Normal Condition- Reversed Mains	0.6 uA-OPI	100	-	P
Earth Leakage Current				P
Open Neutral	468 uA-OP	1000	-	P



Signature

MOHD NAJIB FARHAN B. ISMAIL
BIOMEDICAL ENGINEER
(012-396 7048)
QUANTUM MEDICAL SOLUTIONS SDN. BHD.

