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.	ork Order No. PWO365363			Sc	Schedule Month		June 2018		
Work Order Date		01/06/2018			Completed Date		4/7/18		
Clinic Name		Klinik Kesihatan Batu Pahat			Clinic Code		JHR003		
BE No. JHR003032				Dis	Distict		BATU PAHAT		
BE Category	ory ANALYZERS, LABORATORY, HEM			M wc) Assi	gned to	ferhan		
Ownership		Existing Equipment				Purchase	New		
BE Condition	Active				BER Proposed				
Work Order Type		V	Preventive Maintenance (PM)	Third Party Calibration (TPC)				
Work Order Type Routine			Routine Inspection (RI)			Statutory Certificat	ion (SC)		
Reschedule Date									
BE Third Party Ca	BE Third Party Calibration / Statutory Certification Details								
Company Name			m	Ca	/ Cer	t Date	ma'		
Contact Number	10			Ca	/ Cer	t Expiry Date			
Corrective Maintenance / Breakdown BE Sticker Availability: Yes / NA Remarks:					ready	to use.	Manufacturer : Modal : X7	100	
		oility :	Yes / NA				Serial No :		
	rks:						Serial No :		
Remar	rks:	cution				Date	Serial No :	End Time	
Remar	rks:	cution QMS	Details			Date 4/7/19		End Time	
Remar	nance Exe	cution QMS	Details				Start Time		
Remar	nance Exe	cution QMS	Details				Start Time		
Remar	nance Exe	cution QMS	Details				Start Time		
Remar	nance Exe	cution QMS	Details				Start Time		
Schedule Mainter SI No Customer Remarks	nance Exe	QMS	Details	Cus	omer	4/7/19	Start Time		
Schedule Mainter SI No	nance Execution	Cution QMS	Details Engineer / Technician Name B FARHAN B. ISMAIL EDICAL ENGINEER	Nam		Signature AFI	Start Time	AZIZ	
Schedule Mainter SI No Customer Remarks Engineer / Technicia	nance Execution in the second	cution QMS 7 Te NAJI BIOME	Details S Engineer / Technician Name B FARHAN B. ISMAIL	Nam	ie gnatic	Signature AFI	Start Time	AZ1Z	

QUANTUM MEDICAL SOLUTIONS
RAZILE BINTE MISKAE:
BINMEDICAL ENGINED.

First Verification

QMS Circle Incharge

Final Verification

QMS State Incharge

e E



PART 1 ASSET DETAILS

KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Analyzers, Laboratory, Hematology, Cell Counting, Automed (Medium) BE CODE : ME-009

CHECKLIST NO:CL-015-000 REV.000

VO	RK ORDER NO	▶ Pwo	3653	53					BE NO	- JH	10	030	32	
ΛAΝ	NUFACTURER	- Sys	MEX						MODEL	- XB				
RE	QUENCY	► 6 MONT	HLY	7	12 MONT	HLY ()		PPM HOURS	▶ 2.00				
PAI	RT 2 SPECIAL PR	ECAUTION												
the	ere is evidence of bo	ody fluid contar	mination, s	ubmit the	device fo	or cleaning	g and deconta	mination before inspe	ecting it.					
	ar appropriate Perso													
Vea	ar grounded electros	tatic wristband	l when har	idling PC	B or elect	ronic com	ponents.							
	er to the safety proce				nd guidan	ce as per	manufacturer	guidelines.						
	e sure the test equip		e duly calit	orated.										
	(√) where appropria													
_	IO ASSE				DESC	RIPTION		SEF	SERIAL NO CALIBRAT			TION DUE ON		
	TEESO	20074	ELECTR	ICAL SAF	ETY AN	ALYZER		30060	3226916		9110118			
		•										411		
			111											
201														
Yest.	RT 4 QUALITATIVI						I					-		
ICK	(√) where appropria	пе		PASS	FAIL	NA				PASS	3 F	AIL	NA	
1	Chassis - verify phy	200		(/)	()	()	11 Probes	- Verify physical interi	gity	(/) ()	()	
2	cleanliness and cor Mount/ Fasteners -		integrity	(/)	()	()	12 Temper	rature system- verify p	roper operation	n (/) ()	()	
3	Power Cord - verify	proper insulat	ion and	(/)	()	()		tor/compressor/pump		ı ()) ()	()	
4	integrity Strain Relief - verif		grity at	(/)	()	()		and proper operation ation Process-Verify	1	(/)	()	
5	both ends of line co Fittings/ Connectors			(/)	()	()	15 Printer	- Verify physical opera	ation.	(/) ()	()	
6	fittings/connectors Controls/Switches -	verify proper	operation	()	()	()	16 User Se	etting - Verify Operation	on	(/) ()	()	
	of controls Indicators/Displays-					()	17 User ca	llibration - Verify Oper	ation) ()		
	Electrodes and Train			(1)		()		agnostic - Verify Opera) ()		
	integrity Hydraulics and Pne			(/)		()		ovement calibration -)		
	physical integrity Sensors- verify phis			(1)		()	l is made in	o romani danbration	vomy operand	()	, (,	,	
- Indian	2-51-0 ²			168 100 20	,	,								
	PREVENTIVE		ICE TASK	S										
ick (($\sqrt{\ }$) where appropria	te			NOT						N	ЮТ		
				DONE	DONE	NA				DONE		ONE	NA	
1	Clean exterior and i	interior of the		(/)	()	()	6 Clean n	neasuring area		(/) () (()	
2	equipment Inspect/clean interio	or of unit		(/)	()	()	7 Calibrat	e system parameter		(/) () (()	
3	Clean hydraulics an	nd pneumatic s	system	(/)	()	()	8 Perform	Post routine		(/) (
	Tubings - clean/ rep	153		(/)		()					10 W	6.3	ra K	
				(/)			Notes:	For all Darta MA is d	ofined as NOT	ADDI ICAT				
J	Clean sampling me	GIAIIISIII		(/)	()	()		For all Parts, NA is d If you have ticked 'N Choose Whichever A	OT DONE', the					



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Analyzers,Laboratory,Hematology, Cell Counting, Automated,Medium

BE CODE: ME-009

CHECKLIST NO:CL-015-000 REV.000

WORK ORDER NO ▶ PART 6 QUANTITATIVE TASKS Tick ($\sqrt{\ }$) where appropriate Units / Set Measured Limit/Tolerance PASS FAIL NA Description UOM Values Values PART 7 ELECTRICAL SAFETY TEST ELECTRICAL SAFETY TEST, (attach report) Tick (\(\)) where appropriate Result: Standard use : IEC 60601 IEC 61010 IEC 62353 PASS FAIL NA PART 8 NOTES NOT FUNCTIONING FUNCTIONING CORRECTIVE MAINTENANCE REQUIRED NEXT PPM DATE - Duly WORK ORDER NO ▶_ PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose. COMPLETED BY:

Test Setup

DUT Information

Operator ID:

Equipment Number: JHR003032

Calibration Tech:

DINA

Serial Number:

Calibration Date:

9/10/2017

Manufacturer:

SYSMEX

Firmware Version:

2.08.01

Model:

XP-100

Serial Number:

3226906

Location:

KK BP

Date & Time:

07/04/2018 & 13:51

Other:

JOB Name:

Template Information

Template Name:

JHR003032

Standard:

IEC60601-1-2nd Ed

Pause after Power ON: NO

Pause before Power O NO

Power ON delay:

2

Power OFF delay:

0

Test Speed:

NORMAL

Test Mode:

AUTO

YES

Multi PE Test:

NO

Halt on Test Failure:

Multi Resstore:

WORST/LAST

Include Time:

YES

Reverse Polarity:

YES

Insulation Resistance \ 500V Multi Enclosure Test: NO

Classification:

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	0.100 Ohm	0.2 -	Р
Insulation Resistance			Р
Mains to Protective Earth	999 MOhn		Р
Mains to Non-Earth Accessible Conductive Par	999 MOhn		Р
Mains Voltage			Р
Live to Neutral	236.0 V	- ~	Р
Neutral to Earth	2.1 V		Р
Live to Earth	236.0 V		Р
Equipment Current	0.0 A	<u> </u>	P
Earth Leakage Current			Р
Normal Condition	14.2 uA-OI	500 -	Р
Open Neutral	20.5 uA-OI	1000 -	P
Open Neutral- Reversed Mains	21.1 uA-OI	1000 -	P
Normal Condition- Reversed Mains	14.8 uA-OI	500 -	Р

Enclosure Leakage Current			Р
Normal Condition	0.1 uA-OPI	100 -	Р
Open Earth	14.3 uA-OI	500 -	Р
Open Neutral	0.1 uA-OPI	500 -	Р
Open Neutral-Reversed Mains	0.1 uA-OPI	500 -	Р
Normal Condition- Reversed Mains	0.7 uA-OPI	100 -	Р
Open Earth- Reversed Mains	0.8 uA-OPI	500 -	Р

Signature

