Form B03

Scheduled Maintenance Work Order



July 2018 Schedule Month PW0366021 Work Order No. 10/7/2018 Completed Date Work Order Date 01/07/2018 JHR047 Clinic Code Klinik Kesihatan Sungai Rengit Clinic Name KOTA TINGGI Distict JHR008628 BE No. Ictab me3 WO Assigned to Electrocardiographs, Multichannel BE Category New Purchase Existing Equipment Ownership **BER Proposed** BE Condition V Active Third Party Calibration (TPC) Preventive Maintenance (PM) 1 Work Order Type Statutory Certification (SC) Routine Inspection (RI) Reschedule Date MA BE Third Party Calibration / Statutory Certification Details NIA Cal / Cert Date WIA Company Name Cal / Cert Expiry Date NIA Contact Number Action Taken Manufacturer: SUZUKEN PM / Pkrjob done as per checklist. Unit tested functioning good & ready to use. Model: KENZ ECG 103 Breakdown Corrective Maintenance / Serial No: 4210 - 4322 BE Sticker Availability Remarks Schedule Maintenance Execution Details Start Time **End Time** Date QMS Engineer / Technician Name SI No 1420 2017 Mp ALWAN Customer Remarks MA **Customer Signature** Engineer / Technicit NORHASMAN BINTI BAHRUN Name Name MOHAMAD SAFWAN BIN ROSLAN Designation Date Biomedical Technician Date Quantum Medical Solution Sdn. Bhd Seal

For Internal Use

MUHD RAMADEM STAMAR JAYA

First Verification

QMS Circle Incharge

Technical Service Department
Quantum Medical Solutions Sdn. Bhd.
Tel: +60 12-396 1697

Final Verification

QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Electrocardiographs, Multichannel

CHECKLIST NO:CL-063-000 REV.000

					BE CODE: 11-411				
ART 1 ASSET DETAILS					BELL TO THE STATE OF				137
ORK ORDER NO PW0366 NUFACTURER FUZUKEA EQUENCY SMONTHLY () ART 2 SPECIAL PRECAUTION	/	MONTH	LY () 12 N	MONTHLY (V)	ASSET NO MODEL PPM HOURS	THROCKENZ 6	18628 ECG103	
here is evidence of body fluid contamination ear appropriate Personnel Protection Equipment and the sear grounded electrostatic wristband where the to the safety procedure for additional procedure for additional procedure.	pment (Financial) handling precaution	PPE) du g PCB ons and	ring w	ork. tronic comp	onents.				
ART 3 TEST APPARATUS	calibrate	ed.							
k(√) where appropriate	Marin.		-						
DESCRIPTION			A	SSET NO /	SERIAL NO	CALIBRATION DUE ON			
ELECTRICAL SAFETY ANALYZE	ER		32	18071		24/8/2018			
ECG SIMULATOR		9=			- 3233028	12/16/	18		
PART 4 QUALITATIVE TASKS lick (√) where appropriate Chassis - verify physical integrity, deanliness and condition Mount/ Fasteners - verify physical integrity Casters/Brakes - if mounted, verify integrity Power Cord - verify proper insulation and integrity Strain Relief - verify physical integrity at oth ends of line cord Leads/ Electrodes- Verify integrity and ondition	PASS () () () () () () ()	())))	NA () () () () () ()	12. Printer -Verify of	es/ Keypad - verify controls ays - verify proper		FAIL () () () () () ()	()
Circuit Breaker/ Fuse - verify integrity of xternal circuit breaker and/or rating of xternal fuse	1)	()	()					
ART 5 PREVENTIVE MAINTENANCE	TASKS							THE PARTY OF	
$k(\sqrt{)}$ where appropriate	DONE	NOT DO	ONE **	NA	4. Clean/Lubricate		DONE	NOT DONE **	NA NA
Cleanliness - clean interior and exterior the equipment	1	()	()	a) Thermal headb) Paper empty serc) Paper mark sens		/)	()	()
Clean leads & electrode	1	()	()					
Battery - check and replace if necessary	1	()	()	Notes: "For all parts, NA defined a	s NOT APPLICABLE	rks		



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MEET Planned Preventive Maintenance Checklist Electrocardiographs, Multichannel

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WORK ORDER NO

PW0366Q21

(√) where appropriate					
Description	UOM	Set	Measured	Limit/Tolerance	PASS FAIL NA
		Values	Values		
1 Paper Speed (refer Part 8)	mm/sec	10	10	9.5 - 10.5	() () ()
	mm/sec	25	25	23.75 - 26.25	
	mm/sec	50	50	47.5 - 52.5	(/) () ()
2 Pulse Rate Accuracy	bpm	30	30	29-31	
	bpm	60	60	59-61	(/) () ()
	bpm	80	80	79-81	(/) () ()
	bpm	120	120	119-121	
	bpm	200	200	199-201	
	bpm	300	300	299-301	(/) () ()
			12 7		
	41 65-8				
	white the same				
		and and			
		Call of the			
		17 200			
	A LANG		1773.0		Commence of the last the last the

With the second		MEET Planned Electroc	N KESIHATA Preventive Mainten ardiographs, Multi	ance Checklist	SIA	CHECKLIST NO:CL-063-00 REV.000
RK ORDER NO >	W0366	121				
RT7 ELECTRICAL SAFE	TY TEST	V	WAR BUILD			
CTRICAL SAFETY TEST. (at k (N) where appropri	ttach report)					
Standard use :	IEC 60601	☐ IEC 61010	☐ IEC 62353	Result: PASS	☐ FAIL	□ NA
RT 8 NOTES						
		NA				
Reference:						
			FUNCTIONING		OT FUNCTIONING	July 2019

Test Setup

DUT Information

Serial Number :

Equipment Number: JHR008628

Operator ID :

Calibration Tech : MOHANA Calibration Date: 08/24/2018 Firmware Version: 2.08.01

JOB Name :

 Serial Number :
 3218071
 Location

 Date & Time :
 07/10/2018 & 02:15pm
 Other :

Manufacturer: Model:

KK SG RENGIT

Location:

Template Information

Template Name : ECG Pause after Power ON NO

Power ON delay: 2
Test Speed: NORMAL Halt on Test Failure: YES Include Time: YES Insulation Resistance \ 500V Multi Enclosure Test : NO

Standard: IEC60601-1-2nd Ed

Pause before Power O NO

Power OFF delay: 0 Test Mode: AUTO
Multi PE Test: NO Multi Resstore: WORST/LAST
Reverse Polarity: YES
Classification:

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	0.002 Ohn	0.2	-	Р
Insulation Resistance				P
Mains to Protective Earth	999 MOhr	-	- 11	P
Mains to Non-Earth Accessible Conductive Pa	999 MOhr	-		P
Mains Voltage				P
	235.4 V		-	P
Neutral to Earth	4.4 V			P
NATIONAL STATE OF THE STATE OF	235.8 V	-	4	P
	0.0 A	-		P
Earth Leakage Current				P
	336 uA-OF	500	-	P
	512 uA-OF	1000	-	P
	513 uA-OF	1000	-	P
	334 uA-OF	500		P
Enclosure Leakage Current				P
	0.2 uA-OP	100		P
	335 uA-OF	500		P
	0.2 uA-OP	500	-	P
Open recurs.	0.2 uA-OP	500		P
Open reducer neverses	0.2 uA-OP	100		P
Horring Condition Hereisea Hams	334 uA-OF	500		P
Open cartif- neversed iviality	וט-אט דכנ	500		

