Test and Inspection Matrix

This chapter includes the Test and Inspection Matrix for the M2636B TeleMon Monitor.

Tests that require power should be performed with the TeleMon on AC power, but with the battery installed.

M2600A Telemetry System - Test and Inspection Matrix

Name	Test or '	"Inspection" to Perform		Expected Test Results	What to Record on Service Record
a	Inspect the system (and packing material if applicable) for obvious signs of damage. Also check external leads and accessories.			The system does not have any obvious signs of damage = Pass.	V:P or V:F where P=Pass and F=Fail
Power On:	Step 1 2	Action Switch on the M2636B. Observe that the monitor boots up successfully without displaying any error codes and that output appears on the display (example waveform and parameter labels). An indication that the "battery needs reconditioning" is acceptable. Insert a functioning Telemetry transmitter that is compatible with the M2636B. Observe that the "Transmitter Disconnected" prompt disappears when the transmitter is docked.		Monitor boots up displaying no error codes, responds correctly to telemetry transmitter = Pass	PO:P or PO:F where P = Pass and F = Fail

Test Block Name	Tes	st or "	'Inspection" to Perform	Expected Test Results	What to Record on Service Record
Performance Test NBP:	Acc	Accuracy Test		Value displayed on Monitor = x1	
	S	Step	Action	If difference <=3mm proceed	
		1	Connect the manometer and the pump to the NBP connector.	to next test	
		2	Go to Service Mode.		
		3	Go to the Calibration application.		
		4	Raise the pressure to 280 mmHg with the manometer and pump.		
		5	Wait 10 seconds for the measurement to stabilize.		
	6	6	Compare the manometer values with the displayed values. Document the value displayed by the Monitor. If the difference is greater than 3mmHg then calibrate the module.		
	Leakage Test			Leakage test value = x2 If <= 6mmHg proceed to next	
	S	Step	Action	test	
		1	Watch the pressure value for 60 seconds. After 60 seconds the value should have decreased by less than 6 mmHg.		
	2	2	Calculate and document: Leakage test = Accuracy - displayed value.		

Test Block Name	Test or	"Inspection" to Perform	Expected Test Results	What to Record on Service Record
	Linearity Test		Value displayed by Monitor = x3	
	Step	Action		
	1	Reduce the manometer pressure to 150 mmHg.		
	2	Wait 10 seconds for the measurement to stabilize, then compare the manometer values with the displayed values.		PN:P/x1/x2/x3 or PN:F/x1/x2/x3 Where P = Pass And F = Fail
	3	Document the value displayed. If the difference is greater than 3mmHg then calibrate the module.		And r = raii
<u>S</u> afety (<u>1)</u> :	Step	Action		
	1	System Safety Test Enclosure Leakage Current/Normal Condition: See the next section, "Safety Tests," for details.	Normal Condition maximum leakage current = x1 (≤300 µA)	S1:P/x1/x2 or S1:F/x1/x2
	2	System Safety Test Enclosure Leakage Current/Single Fault Condition: See the next section, "Safety Tests", for details.	Single fault maximum leakage current = x2 (≤300 µA)	
<u>S</u> afety (<u>2)</u> :	Protective Earth. See the next section, "Safety Tests," for details.		Protective earth with mains cable: Maximum impedance = x1 (≤200 µOhm)	S2: P/x/ or S2:F/x
<u>S</u> afety (<u>3</u>):	Patient Leakage Current/ Single Fault Condition: See the next section, "Safety Tests," for details.		Maximum leakage current = x1(≤300 μA)	S3:P/x or S3:F/x

Safety Tests

The test procedures outlined in this section are to be used **only** for verifying safe installation or service of the product in question.

The setups used for these tests and the acceptable ranges of values are derived from local and international standards but may not be equivalent.

These tests are <u>not a substitute for local safety testing</u> where it is required for an installation or a service event.

If using the Metron Safety tester use your local regulation to perform the test, *for example* in Europe IEC601-1/IEC601-1-1 and in the US UL2601-1. The Metron Report should print results with the names listed below, along with other data.

Safety checks at installation refer to safety aspects directly related to the installation and setup activities and not to intrinsic safety features that have already been checked during final acceptance testing at the factory.