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Model	<b>RM 7xxx</b>		
Subject	<b>Testplan MES / AES</b>		



**Before testing make sure, that all cables are connected to the PCB ! Provide a possibility, that the 12 VDC supply , the AC supply , the +12 V heater supply and the D+/S+ connection (only on AES) can be interrupted easily ! The supply voltage must be between 11 VDC and 14 VDC.**

## 1. Test plan MES

No.	Action	Indication	Result
<b>1.</b>	<b>230 VAC Function test</b>		
1.1	Turn rotation knob to AC with AC supply not connected	AC LED must keep off	
1.2	Provide AC supply (230 V)	AC LED lights green after a few seconds	AC relay switches
<b>2.</b>	<b>12 VAC Function test</b>		
2.1	Turn rotation knob to DC with +12 V heater supply not connected	DC LED must keep off	
2.2	Provide +12 V heater supply	DC LED lights green after a view seconds	DC relay switches
<b>3.</b>	<b>Gas Function test</b>		
3.1	Turn rotation knob to Gas, wait 30 seconds	Gas LED lights yellow for 30 sec, then flashes	Ignition starts and valve opens for 30 sec, then frid-ge goes in lockout mode
3.2	Turn rotation knob to off and then to Gas, provide gas to gas input tube	Gas LED lights yellow	Ignition starts until flame is on
<b>4.</b>	<b>Interior light test</b>		
4.1	Turn to any mode, open door		Interior light switches on
4.2	Close door		Interior light switches off
4.3	Turn to - OFF mode and open door		Interior light keeps off



## 2. Test plan AES RM7xxx

No.	Action	Indication	Result
<b>1.</b>	<b>230 VAC Function test</b>		
1.1	Turn rotation knob to AC with AC supply not connected	AC LED lights red	
1.2	Provide AC supply (230 V)	AC LED lights green after a few seconds	AC relay switches
<b>2.</b>	<b>12 VAC Function test</b>		
2.1	Turn rotation knob to DC with +12 V heater supply not connected	DC LED lights red	
2.2	Provide +12 V heater supply	DC LED lights green after a view seconds	DC relay switches
<b>3.</b>	<b>Gas Function test</b>		
3.1	Turn rotation knob to Gas, wait 30 seconds	Gas LED lights yellow for 30 sec, then flashes	Ignition starts and valve opens for 30 sec, then fridge goes in lockout mode
3.2	Turn rotation knob to off and then to Gas, provide gas to gas input tube	Gas LED lights yellow	Ignition starts until flame is on
<b>4.</b>	<b>Interior light test</b>		
4.1	Turn to any mode, open door		Interior light switches on
4.2	Close door		Interior light switches off
4.3	Turn to - OFF mode and open door		Interior light keeps off
<b>5.</b>	<b>AES Mode</b>		
5.1	Turn to AES mode; +12 VDC heater and AC supply not connected	AES LED lights green and yellow LED for gas mode comes up	Ignition starts and valve opens for 30 sec, then fridge goes in lockout mode
5.2	Provide AC supply	AES LED lights green and green LED for AC mode comes up	AC relay switches
5.3	Remove AC and provide DC heater supply and D+ (alternator input)	AES LED lights green and green LED for DC mode comes up	DC relay switches
5.4	Remove DC and wait approx. 15 Minutes	AES LED lights green; after 15 minutes the yellow LED for Gas mode comes up	DC mode switches off; after 15 minutes (tankstop delay) ignition starts and valve opens for 30 sec, then fridge goes in lockout mode