

Item Code: 2908231137
Automatic Contactor Test Bench (Single Station)
Operator Manual
Rev0

Apart from this document, There are Videos which explains all functionality. Kindly contact us to get those videos for better understanding and ease.



Make Sure that Short Link is there between “I-CAL” Banana terminals.



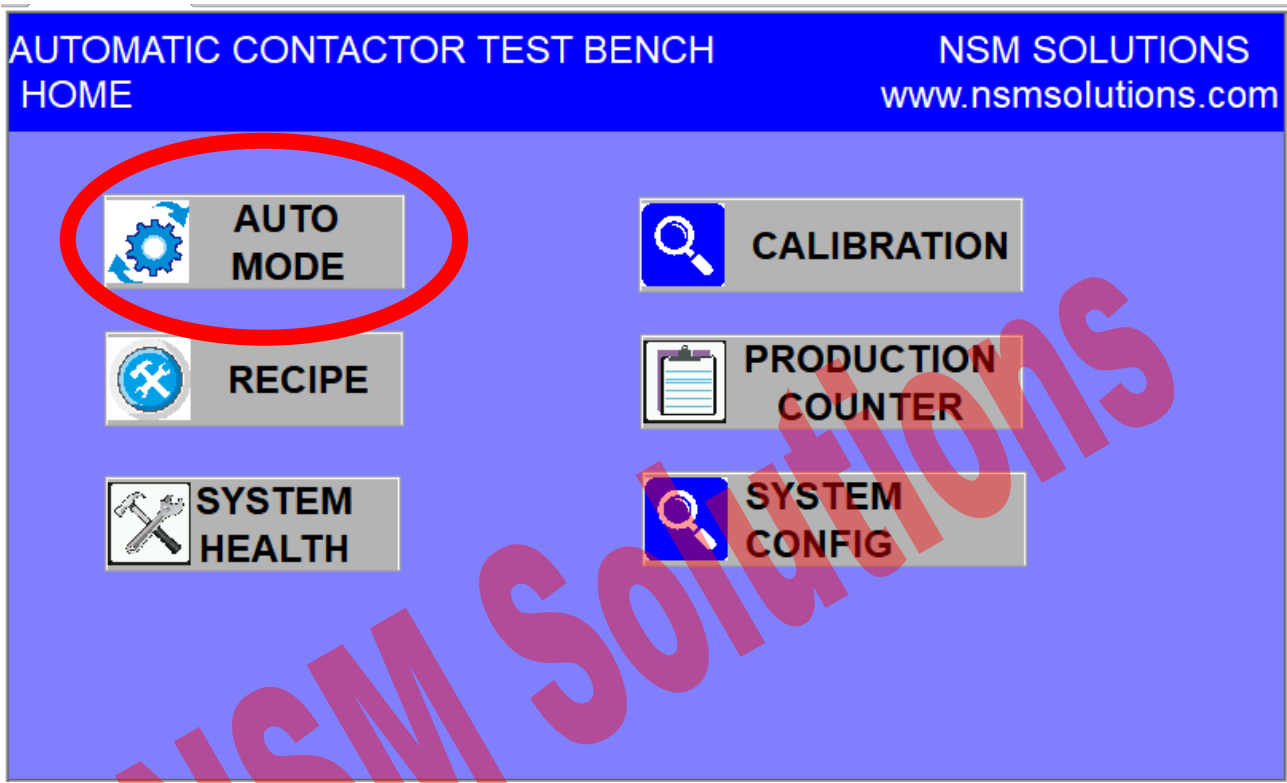
#

Release the Emergency Button to Power up the equipment.
Red Colour “Power” Indicator will glow and HMI will get ON.

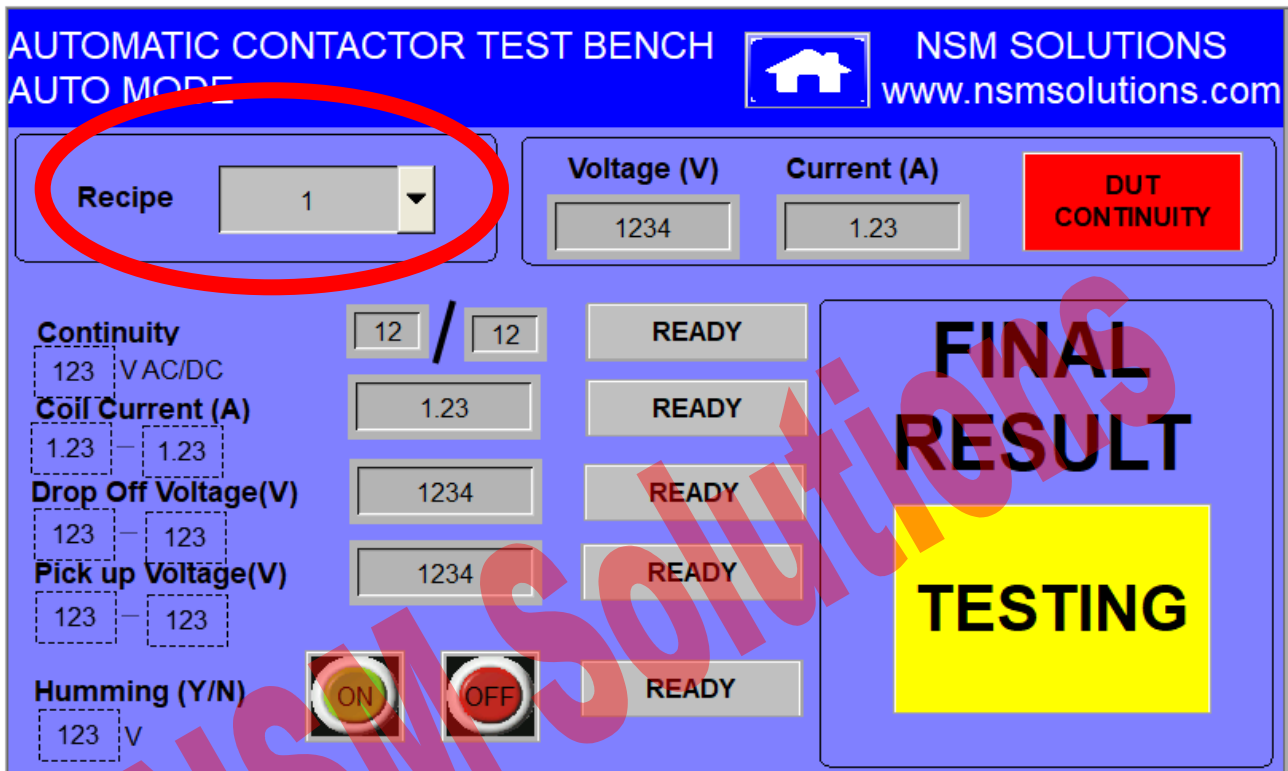


#

Click on "Auto Mode".



#Select Appropriate Recipe from Dropdown and connect the DUT (Device Under Test).



“DUT COIL” Terminals will go to Coil of the Device Under Test.

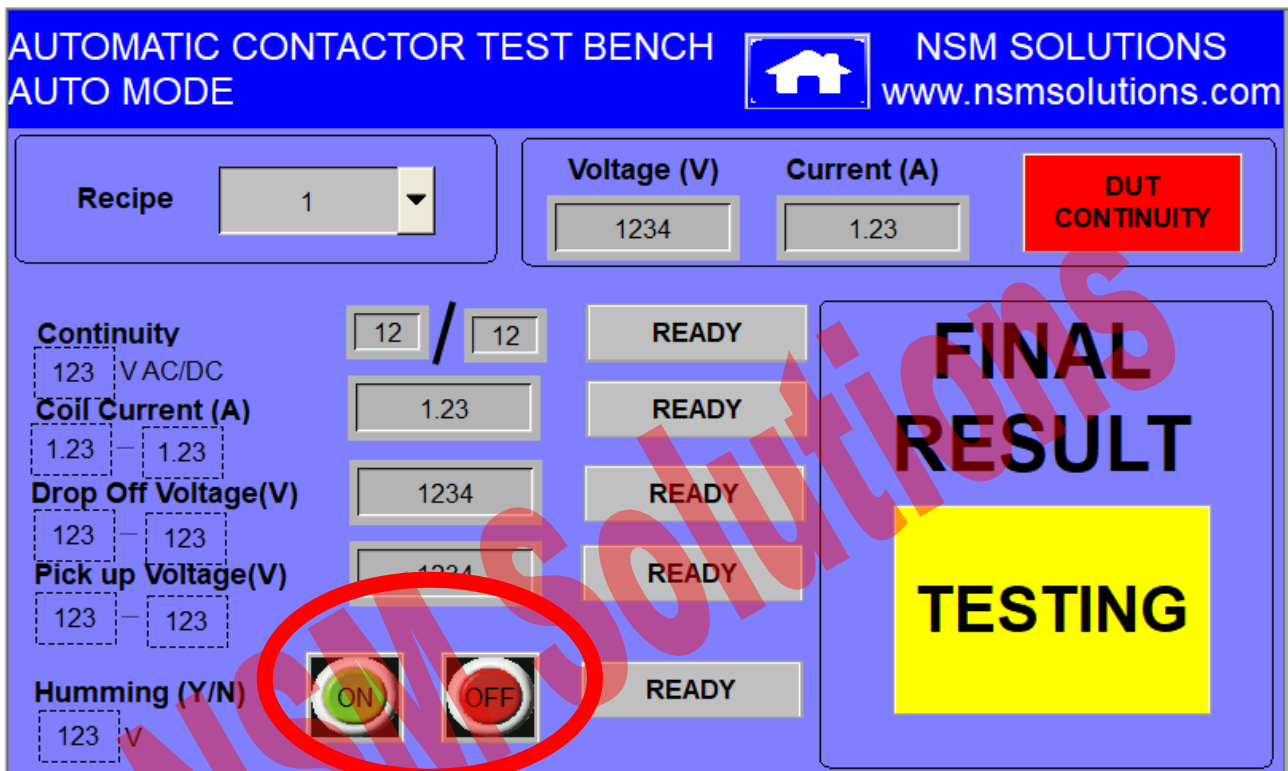
“DUT NO CONTACT” Terminals will go to Potential free NO Contact of the Device Under Test.

#

That's it. Press Test Start Button. System will start to increase the voltage slowly and measure Pick Up Voltage. Then, Once Rated Voltage is reached, System will measure Coil Current. Then, System will make DUT On/Off for predefined number of times and test Continuity. After that, System will reduce the voltage till Humming Voltage.




#At Humming Voltage, Operator will test the Humming and Click on “Yes”/ “No” Push Button on HMI.



Then, System will continue to reduce Voltage to 0 and measure Drop Off Voltage.

At the end, If all measured parameters are within band, System shall show “PASS” or “FAIL”.

Recipe Manager

AUTOMATIC CONTACTOR TEST BENCH  **NSM SOLUTIONS**
RECIPE MANAGER www.nsmsolutions.com

Recipe
Continuity Count

Coil Type Rated Coil Voltage (V) Humming Voltage (V)

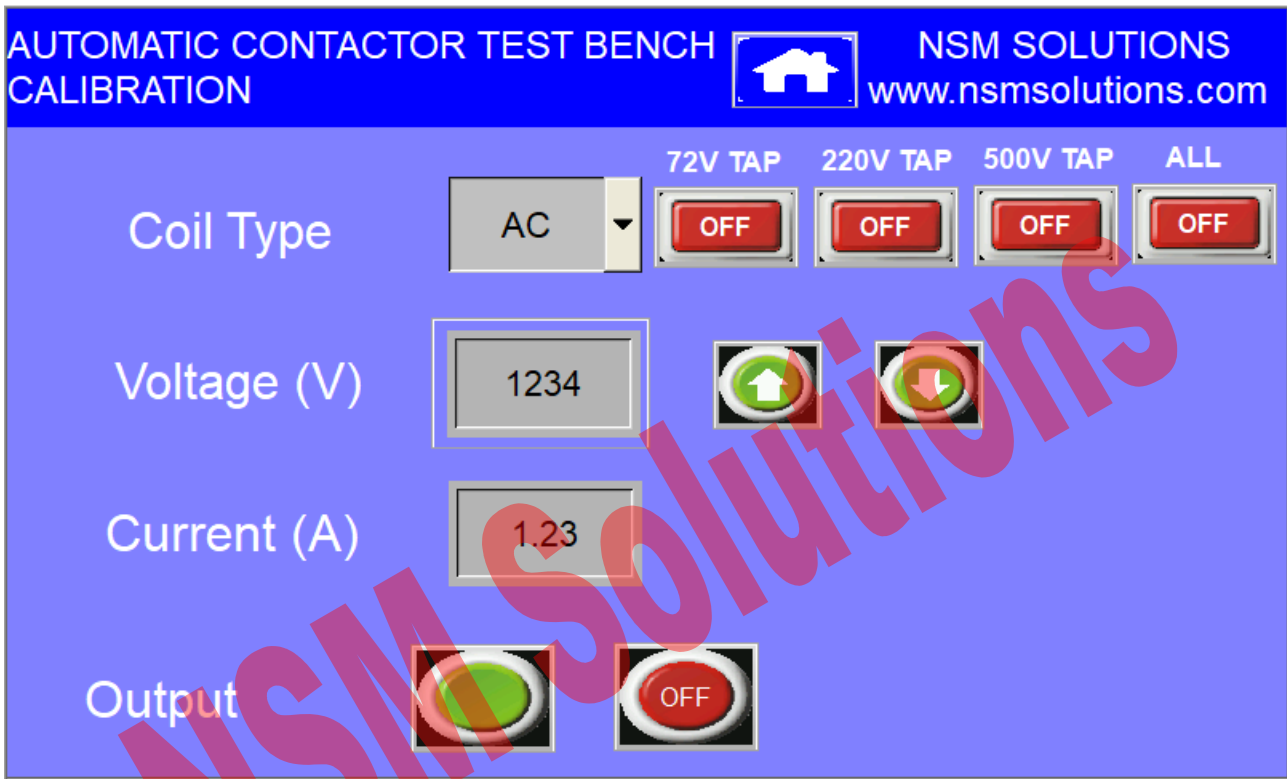
	Lower Limit	Upper Limit
Coil Current (A)	<input type="text" value="1.23"/> <input type="button" value="v"/>	<input type="text" value="1.23"/> <input type="button" value="v"/>
Pick up voltage(v)	<input type="text" value="123"/> <input type="button" value="v"/>	<input type="text" value="123"/> <input type="button" value="v"/>
Drop Off Voltage(v)	<input type="text" value="123"/> <input type="button" value="v"/>	<input type="text" value="123"/> <input type="button" value="v"/>

You can configure Recipes here. You can set all the vital parameters of your Device Under Test in above screen and Click on Save.

Upon Clicking on “Save” Button, It will ask for the password.

The Password is “123”.

Calibration Mode



In this mode, You can verify whether Voltage shown on HMI is Correct or not with the help of third party Meter.

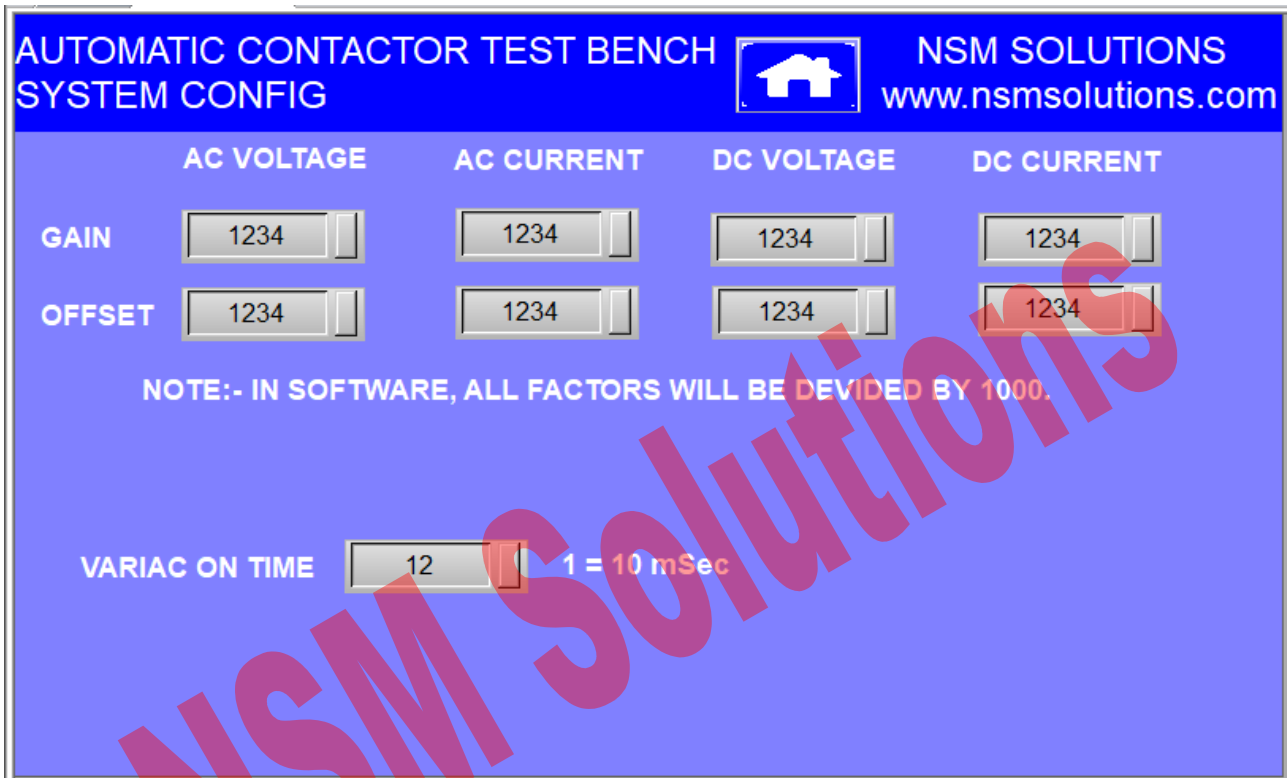
For this, You can take help of “V-CAL” and “I-CAL” terminals.



In case if you feel that the Calibration disturbed, then you can configure the Gain and Slope parameters in “System Config”.

System Config

Here, You can adjust Gain and Offset parameters for measurement of AC and DC Voltage and Current individually.

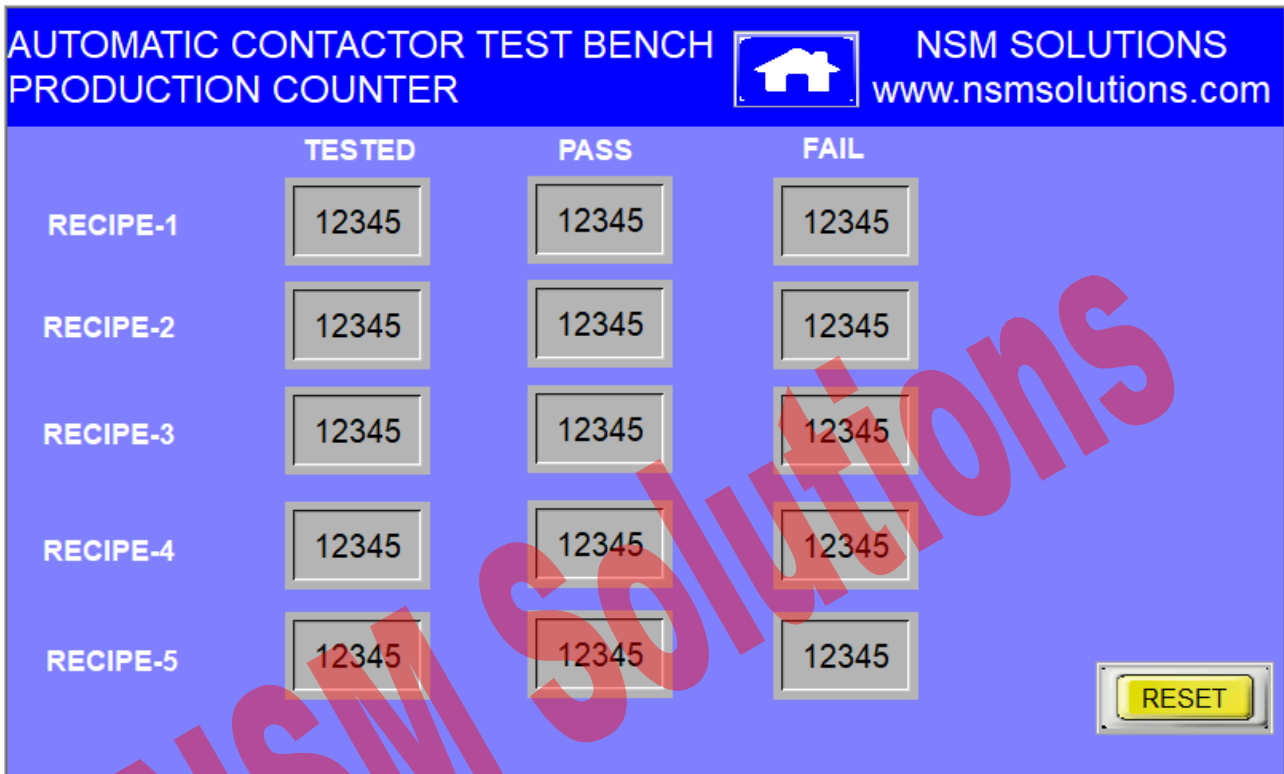


You can also adjust the speed of Motorized Variac movement by using the parameter “Variac On Time”.

The Higher the Number, Voltage Increment Step will be higher. Your Cycle time will reduce but PickUp and DropOff Voltage measurement accuracy may reduce.

The Lower the Number, Voltage Increment Step will be lower. Your Cycle time will increase but PickUp and DropOff Voltage measurement accuracy may improve.

Production Counter



Here, You can see Recipe wise Production Counters.

If you want to reset those counters, You can press “Reset” button. Then, It will ask you the password.

The Password is “123”.

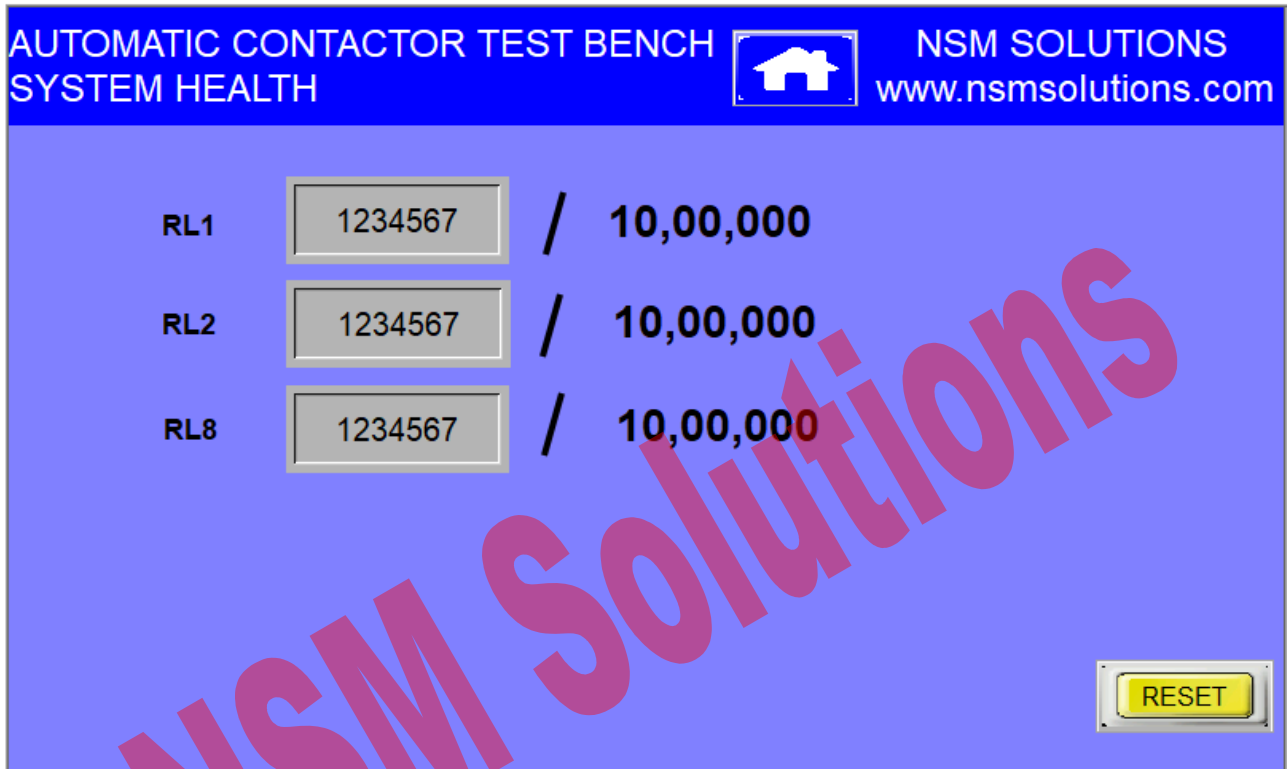
That’s it, and the counters will get reset.

System Health Check

This mode helps in Preventive Maintenance.

System has some ElectroMechanical switching components which has finite life. Once their life is consumed, You should change those items without waiting for them to breakdown.

This will ensure that your equipment is always Healthy.



Refer “Wiring Diagram” and “List of Spares” document for more information about the items to be replaced with.

Apart from this document, There are videos explaining the entire test setup in brief. Kindly contact us and ask for it.

Thank you.