Since 1985

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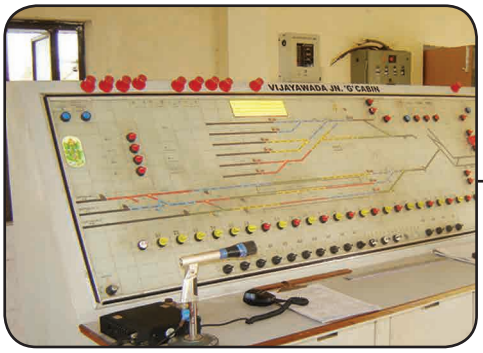
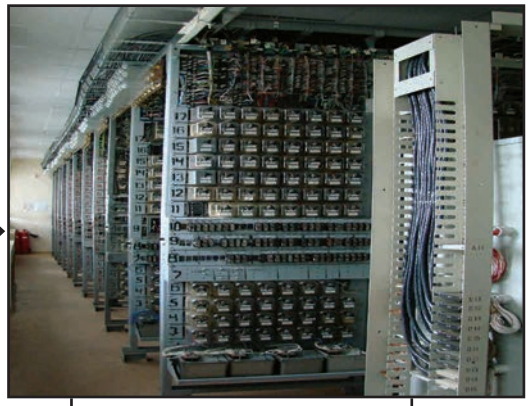
RRI DIAGNOSTIC SYSTEM

RRI Diagnostic system monitors panel button circuit and relays' status and helps the technician in finding root cause of internal circuit failure and rectification. Softcopy of required circuit diagrams can be obtained with press of a button

ARCHITECTURE



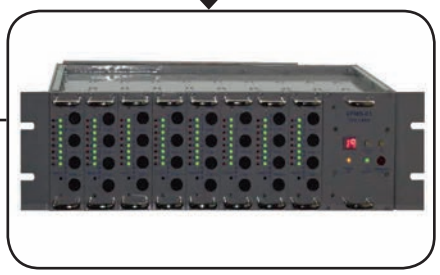
SM Panel



Relay Room

PC with Station Specific Software

Station Data Logger



Voltage Monitoring Unit

FUNCTIONS OF SOFTWARE

- Voltage monitoring unit monitors the voltage of button circuit at intermediate test points decided by railways. Availability / non-availability of voltage status at each test point is converted to digital data and given as input to station data logger through serial port.
- A PC connected to station data logger is loaded with diagnostic software specially developed. The failure of button circuit is declared by the software based on the circuit progress given by VMU.
- From the status of various relays monitored by station data logger; the software monitors the operation and progress of circuit based on the sequence of relay operation.

RRI DIAGNOSTIC SYSTEM

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❖ For further trouble shooting, the software provides the following information

- Sequence of relays status [for the relays being monitored by data logger only] with time stamp.
- RELAYs which are not operated as per the sequence are shown in RED with its last operated time, relay location and its fuse location.
- Sheet number of circuit diagram for each relay.
- Softcopy of the circuit diagram.

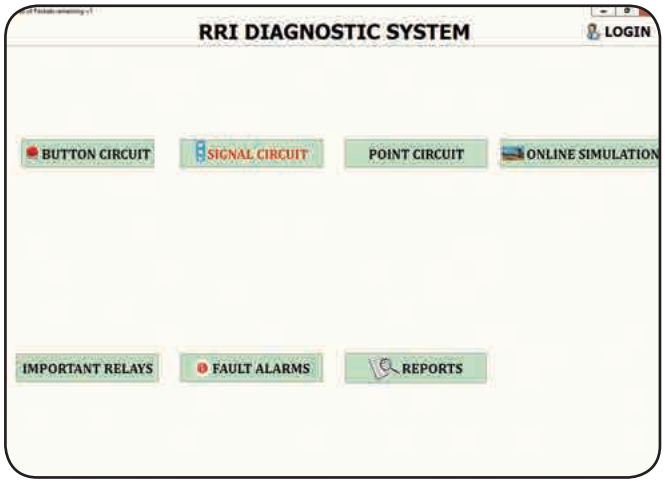
BENEFIT

❖ Drastically reduces internal failure rectification time.

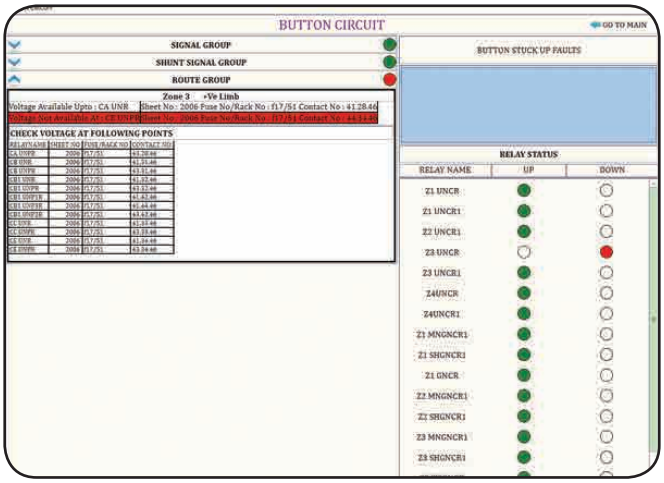
FEATURES

❖ Circuit diagram opening from the failure location – ease of verification of wiring with circuit diagram.

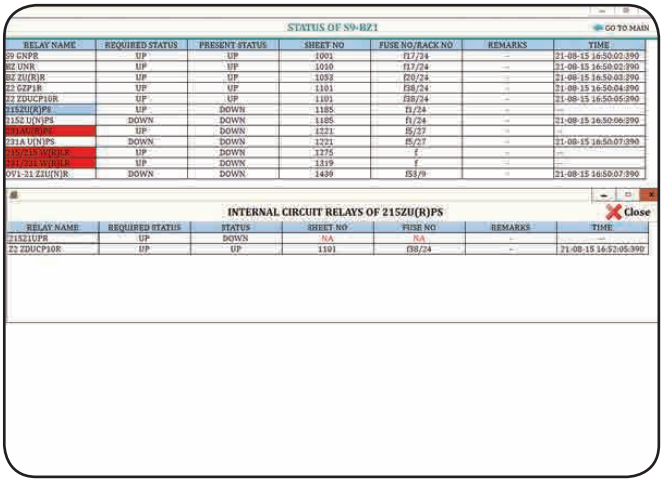
❖ Relay sequence of all panel operations [successful and failed] are stored in the PC for easy analysis of circuit per formance over a period of time.



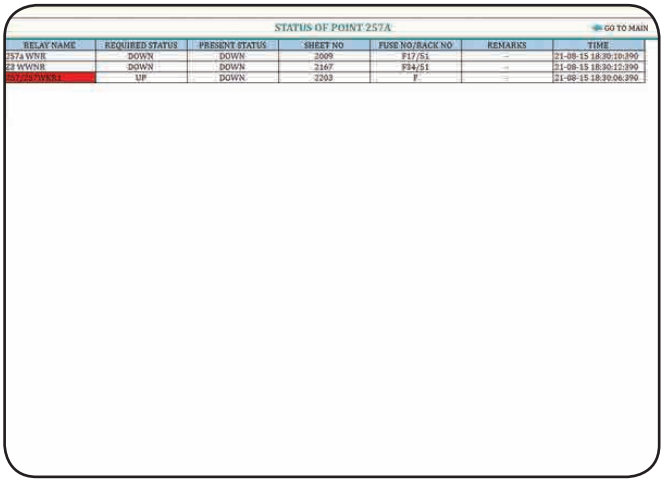
RRI Diagnostic System Home screen



Button Circuit



Signal Circuit



Point Circuit

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