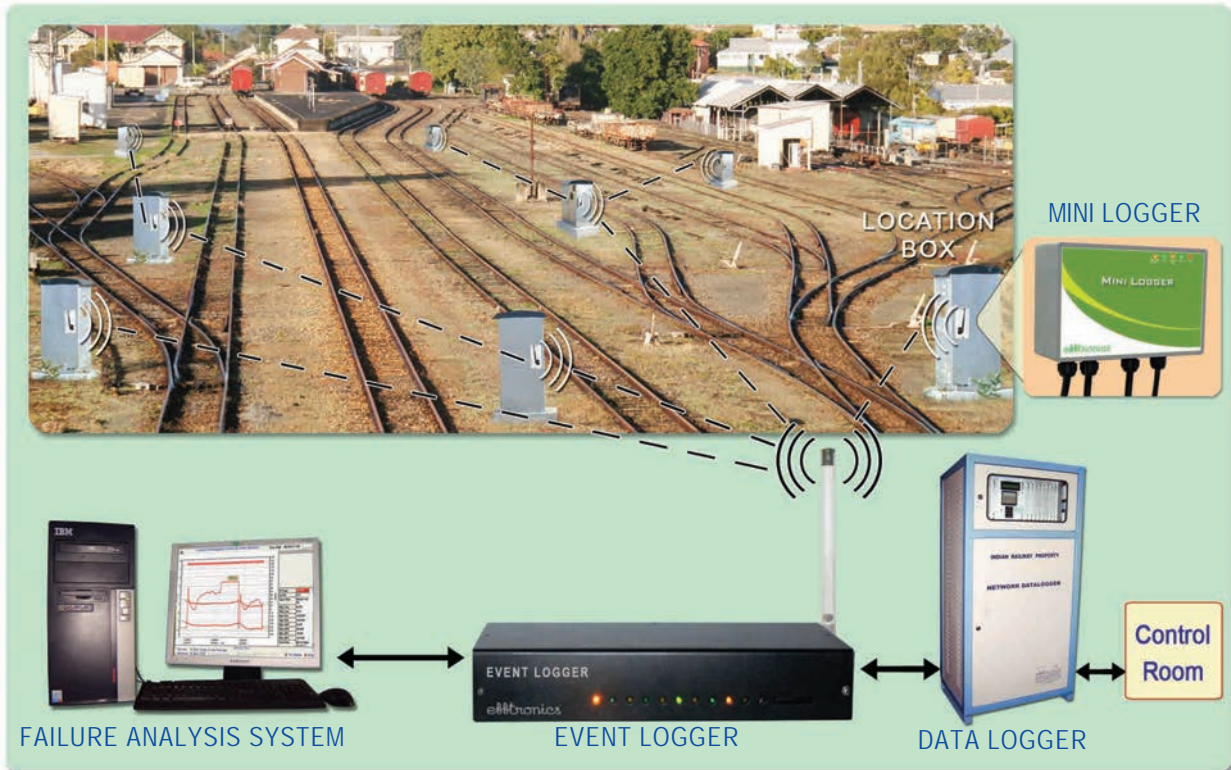


DC Track circuit and Point Machine Health monitoring unit enables signal Technician to perform predictive maintenance.
Reduces the break down maintenance time to the minimum by providing root cause of failures of point & DC track circuit to the technician before reaching the site.



FEATURES

- ❖ Non-invasive method for measuring current.
 - ❖ Graphical representation of Current and voltage signatures of point machine during point operation.
 - ❖ Generating exceptions and alarms when point operating current or time exceeds configured limits.
 - ❖ Faults generation in application software for trackcirtur
- | | |
|--|---|
| <p>Track Circuit:</p> <ul style="list-style-type: none"> • Over energisation of track • Low energisation of track | <p>Point Machine:</p> <ul style="list-style-type: none"> • Initial High Peak current • Obstruction at Point • Friction clutch problem |
|--|---|
- ❖ Superimposing the characteristics of selected operations for a selected Point.
 - ❖ Over energisaton and under energisation state of DC track relay is pre-warned improving the track circuit availability and optimization of maintenance effort.

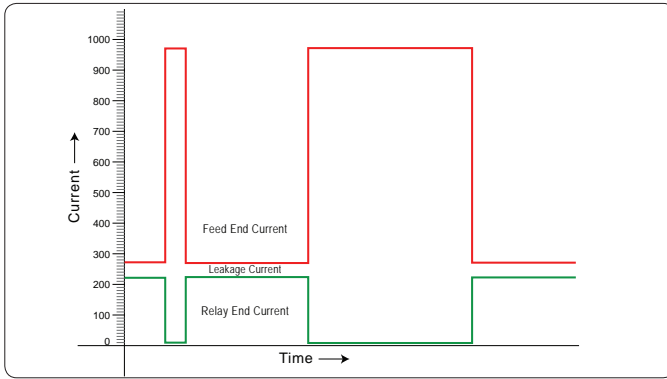
SPECIFICATIONS

- | | |
|--|---|
| <ul style="list-style-type: none"> ❖ Works on 24V DC (18-32V Range). ❖ Wireless communication (2.4GHz ISM Band) for data transferring. ❖ Self routing for long distance data transferring. ❖ Maximum of 6 currents, 4 voltages and 16 digital inputs in mini logger. ❖ Analog channels scanning at 32 samples per second. ❖ Digital inputs scanning at 16milli-seconds. ❖ Data storage capacity. <ul style="list-style-type: none"> • Ten lakh data packets in Event logger. • One lakh data packets in Mini logger. | <ul style="list-style-type: none"> ❖ Measures : <ul style="list-style-type: none"> • Feed end Current • Relay End current • Percentage of relay energization • Point Machine Current • Point Operating Voltage • Track Feed charger voltages • Temperature ❖ Every event is time stamped. |
|--|---|

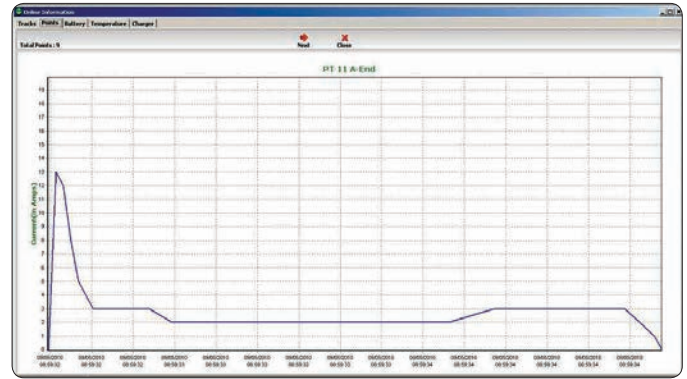
DC TRACK CIRCUIT & POINT MACHINE HEALTH MONITORING UNIT

REPORTS

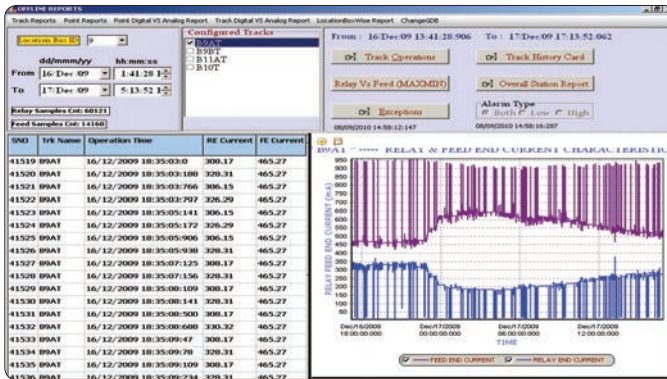
Feed end and Relay end Currents



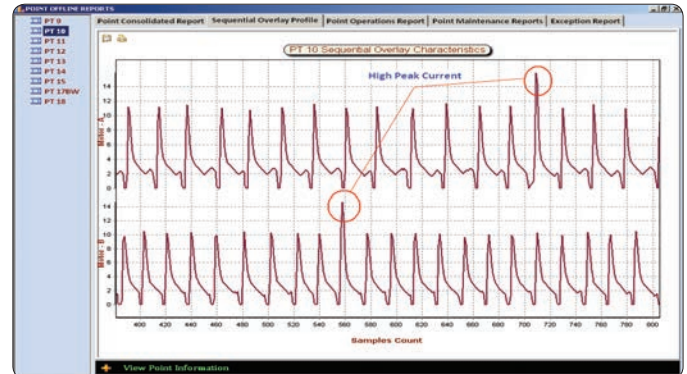
Point Current Signature



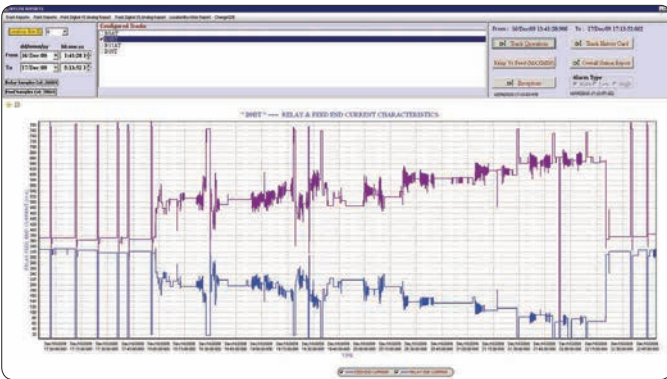
Off-line Reports



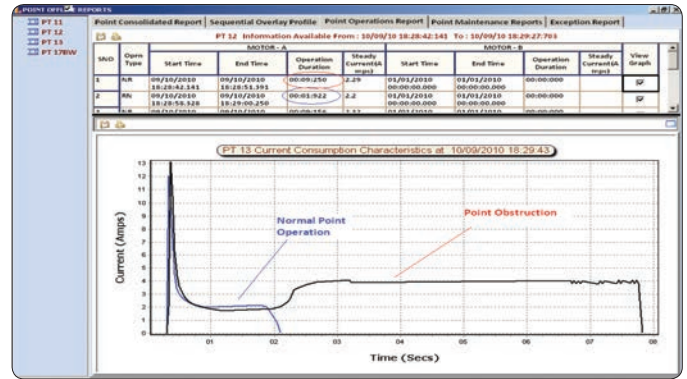
Sequential Overlay Report



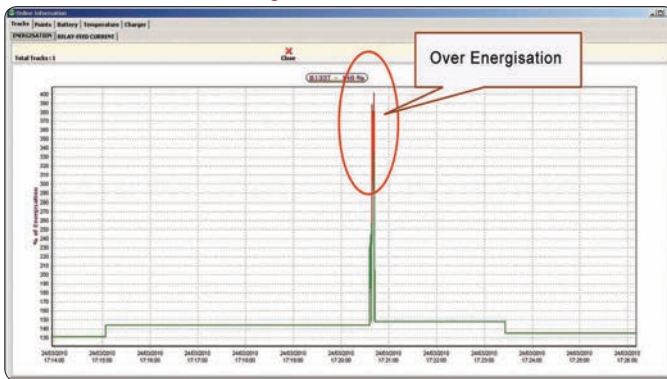
Exception Report for Track Circuit



Point Operations Report



Over Energisation of Track Circuit



Single Ended Point Carbon Brushes Worn Out Characteristic

