



14 Blacknest Business Park
 Blacknest, Nr. Alton. Hampshire. GU34 4PX
 Tel: 01420 23930 Fax: 01420 23921
 sales@acic.co.uk http://www.acic.co.uk



ACIC INTERNATIONAL

This unit has been designed to detect and monitor excessive rail surface contamination caused by the build up of leaves or Sandex on track circuits currently in use by Network Rail.

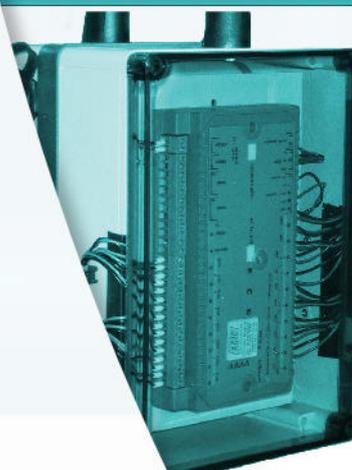
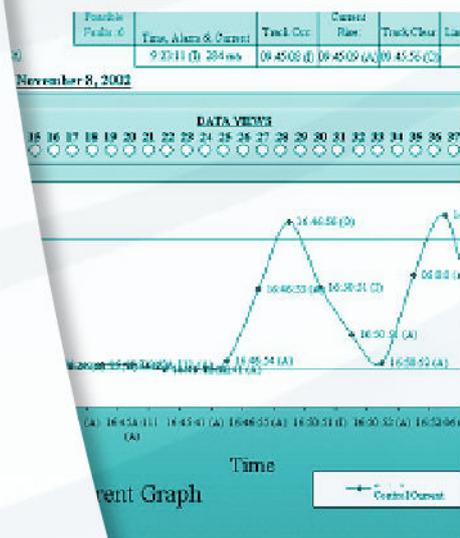
The unit operates with AC and DC current transducers, and is therefore suitable for both AC (T1) or DC track circuits. Calculations are performed on each input channel to provide a reading, which is linearised for the particular current transducer, and for calibration purposes. The input currents are checked against high and low alarm thresholds held in the software. The alarm levels can be changed on the fly by a password-protected procedure using a direct telnet connection via Ethernet or remotely via the GSM modem. The alarms are triggered once the reading crosses a threshold point, or is in between the upper and lower limits. On alarm a text string indicating the value, the track circuit number, and a date stamp is written to a file.

A train striking in is detected by the current falling below the high alarm threshold, this changes the initial character of the written file text string to I (IN). When the current rises above the high alarm threshold this is detected as a train striking out or leaving the track section and the string changes to O (OUT). All other strings are prefixed with an A (ALARM).

All systems have Dual Media Storage with a removable solid state disk. The data is stored in hourly files and daily directories.

The units are designed to be used in conjunction with AC or DC transducers supplied by ACIC.

- ✓ Leaf Fall Detection
- ✓ AC and DC Track Circuits
- ✓ Unbalanced Current Traction Monitoring
- ✓ SMS Alarming - GSM Dual Band
- ✓ Broken Track Detection
- ✓ DC Current Interference Monitoring



Track Circuit Condition Monitoring