

e-Current is especially designed to capture current graphs of railway switch point systems which can also be used current measurement of switch heating system.

Software

- Analyses the Instant current graphs by comparing with reference signals and visualize results on user web Interface.
- Creates alarms In advance In case of current graph discrepancies before problem affects operation of trains.
- In case of any failure. Informs maintenance team to be transferred to the problematic point as fast as possible.
- Easily determines which switch point has caused the failure In multiple switch point turnout systems which are used on High Speed Railway Lines.
- Prepares statistic reports of each switch point In system grouping by turnouts, stations and lines In order to represent the operational health status of all the turnouts at once.
- Web based user Interface can be accessed from all the operating system as well as mobile devices.
- Reports the problems by web user Interface, e-mail and SMS.

Hardware

- Measures current totally electrically Isolated from the system to be monitored.
- Control card can monitor up to 8 current channel.
- Communicates with station terminal via RS485 interface.
- Each Current channel can capture 200 samples/second up to 15 seconds.
- Each station terminal can control 20 control cards In total 160 current channels



E/CURRENT

CURRENT ANALYSIS SYSTEM

Specifications

Hardware (AK8B Control Card)

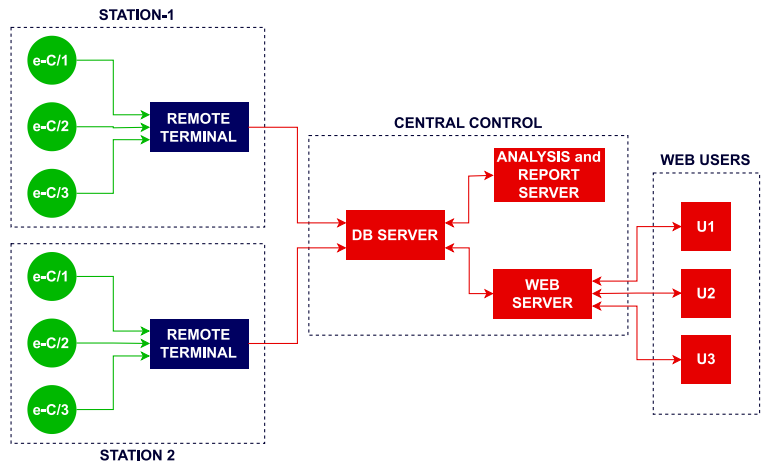
- **Operating Voltage:** 9-36V DC
- **Operation Temperature:** -40°C to +85°C
- **Current Channel:** 8
- **Measured Current Range:** AC 0,1 A to 10 A with 50mA resolution (optional up to 20 A)
- **Communication:** RS485
- **Fixation:** DIN Rail
- **Dimensions:** 115 x 20 x 78 mm (HxWxD)

Software

- Web User Interface (HTML5)
- User management at different permission levels
- System configuration by web interface
- Multiplatform supported application and DB Server
- Automatic maintenance & backup for server and database

Technological and Innovative Aspects of e-Current

- Having a structure that is completely isolated from the systems to be measured.
- Not needing any adaptor or additional attachments while installing.
- Delivering advance warnings to users via web interfaces, text message and e-mail.
- Increase the stability of the signaling systems used in all sub systems due to the low production costs.
- Ability to work in many different systems due to being able to be integrated into the different electric/electronic devices and equipment.
- Less BOM for switch heating system.
- Monitoring power consumptions of each heating element by measuring instant current values.



elsitel

Prof. Dr. Ahmet Taner Kışlalı Mah. 2856. Sk. No:1 Çankaya - Ankara - Türkiye
T. +90 312 446 3630 F. +90 312 446 3633 W. www.elsitel.com.tr M. info@elsitel.com.tr

References: Ankara-Eskişehir High Speed Train Line, Ankara-Konya High Speed Train Line