A graphic with the text 'E/CURRENT' in large, bold, white letters, with 'CURRENT ANALYSIS SYSTEM' in smaller, white, all-caps letters below it. The background is a red-tinted image of a circuit board.

E/CURRENT
CURRENT
ANALYSIS
SYSTEM



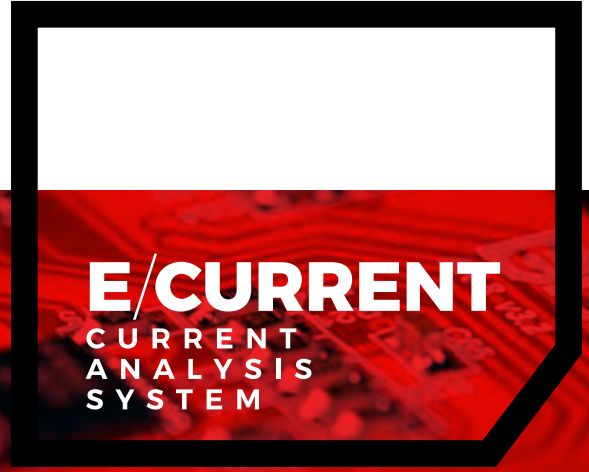
e-Current is especially designed to capture current graphs of railway switch point systems which can also be used current measurement of switch heating system.

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 20 samples/second up to 15 seconds.
- Each station terminal can control 20 control cards in total 160 current channels.



Features

Hardware (AK8B Control card)

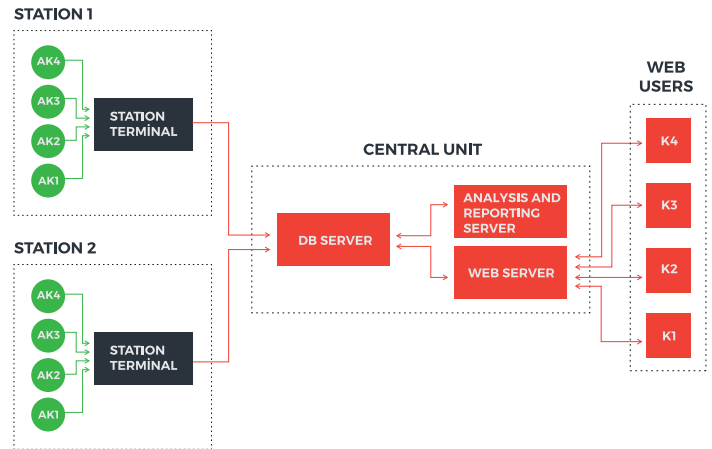
- Operating Voltage: 9-24V DC
- Operation Temperature: -40°C to +85°C
- Current Channel: 8
- Measured current range: AC 0,1 A to 10 A with 50mA resolution (optional up to 20 A)
- Communication: RS485
- Fixation: DIN Rail
- Dimensions: 78 x 115 x 20 mm (HxWxD)

Software

- Web User Interface (HTML5)
- User Management with different permission level
- System Configuration by web interface
- Multiplatform supported application and DB Server
- Automated maintenance & backup of server and database

Technological and Innovative Aspects of the e-Current

- Having a structure that is completely isolated from the system to be measured.
- Not needing any adaptor or additional attachments while installing.
- Delivering advance warnings to users via web interface, 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.



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