V-MON Product line

A product range dedicated to rail infrastructure monitoring
**V-MON Product line**

**Predictive Monitoring system of railway assets**

By implementing this system, railway networks avoid assets failure and curative maintenance: they can predict a break and perform preventive maintenance. Vossloh offers the V-MON Monitoring solutions composed of several modules (turnout, track circuit, events and cable).

**Remote Event Monitoring module**

The V-MON event module provides a large range of data acquisition I/O interfaces able to check, in real time, information picked up along track, or in any technical or signalling room.

Events and alarms are displayed on monitor and a user-friendly man-machine interface allows operators to manage maintenance actions on monitored equipment.

Energy stations, communication devices, signals, signalling equipment, track circuit, level crossing, turnouts... are some examples of equipment monitored by V-MON.

**V-MON Event Monitoring is adapted to any kind of railway line. More than 2000 stations on high-speed lines, secondary lines, or urban lines are equipped with V-MON Event Monitoring on SNCF lines.**

**Remote Condition Monitoring module**

Turnout module and track-circuit module are two solutions of the V-MON product line dedicated to monitor switches & crossings and track circuits.

These products predict trends and tendencies of equipment behavior in order to alert the maintenance operator that something has happened or will happen.

**V-MON turnout module and V-MON track-circuit module have a broad range of control systems which take full advantage of the V-MON line capabilities, including an event recorder, a user configuration tool, a local diagnostic tool, and a web server diagnostic tool.**

**Remote Security Monitoring module**

Cable theft monitoring module allows for real-time detection of a cut cable. The alarm is sent in less than 20 seconds to concerned people (police, security team, maintenance team). A dedicated MMI allows to manage alerts, localizes the cut in a map and communicates between the different teams.

**V-MON cable theft monitoring module allows to significantly decrease the cost of a cable theft by reducing traffic lost time and helping security teams to arrest vandals.**
A large range of sensors dedicated to railway

In order to be connected on a V-MON System, a wide range of sensors has been developed, allowing for example to measure or detect the:

- Active power supply of the turnout
- Switch displacement
- Vibrations
- Current and voltage of a point machine
- Cable cut position
- Parameters of the track circuits

These sensors are installed either in a technical room or along the track. They can be adapted on customer requirement. Completely designed or adapted for railway applications they are designed for severe environment (NF EN 50125-3).

Sites to monitor along the track

- Cable theft condition monitoring module
- Remote event monitoring module
- Remote track circuit condition monitoring module
- Remote turnout condition monitoring module

IN BRIEF
- Predictive diagnosis
- A large product line from sensor to software
- A large range of sensors

► Predictive diagnosis
► A large product line from sensor to software
► A large range of sensors
V-MON Product line

A product range dedicated to event and condition based monitoring for railway equipment.

References

- ANSALDO STS
- COSEA/INEO (TOURS-BORDEAUX LINE FRANCE)
- ERE EIFFAGE
- OCVIA
- ONCF (MOROCCO)
- SNCF (FRENCH NATIONAL RAILWAY COMPANY)
- SNCFT (TUNISIA)
- TP FERRO (FRANCE-SPAIN)

And several other infrastructure and maintenance railway companies...

Vossloh experts are ready to help any railway or urban network to examine a specific technical and economic solution adapted to their maintenance performance.

For further information, please contact:

VOSSLoh COgIFER SA
Signalling Department
4, rue d’Oberbronn
67610 REICHSOFFEN - FRANCE
Tel : +33 (0) 88 80 80 00
Fax : +33 (0)3 88 80 85 19
info@vossloh.com

www.vossloh.com