

## PAVER DATA LOGGING SYSTEM



**On-line quality control for road construction**

- Web service
- Quality management
- Efficiency
- Truckload information

## It's time.

Road construction is a dynamic industry and it is changing all the time. Because of this continuously changing environment the need for information is also shifting. It is not only the production and transport of asphalt that needs to be monitored. Also during processing (paving) of asphalt there are many factors which influence the end result. All these factors are now accurately logged by Pavelog.

Pavelog is part of a wide variety of Topcon products which one way or another tribute to the realization of the increasing demand for information in the road construction industry.

### Pavelog data logging

On the job Pavelog logs all events that are of any influence on the quality of the end result. Accurate logging of actual and average asphalt used ( $\text{kg}/\text{m}^2$ ), completed road (m), slope (%), asphalt temperatures ( $^{\circ}\text{C}$ ) etc... This way there can always be determined what happened on a job site afterwards. Pavelog uses state of the arts technology so any optional expansions are easy to add. For instance connecting several special sensors like humidity sensors, sensor for air temperatures and GPS has already been taken into account.

Apart from data logging Pavelog offers a lot of useful information for practical use on the job. These days the job site manager is getting more and more paper work. This paper work often is related to the actual processing of the asphalt (during paving). Pavelog provides very useful information for the manager as well as the machine operator. Normally this information would be generated after time consuming manual measurements. For instance information about how much asphalt is being used per  $\text{m}^2$  on a current load as well as the average on the whole job is available at the touch of a button/screen.

Also useful on relatively smaller jobs information about crown and working width are displayed. A touch screen using graphic symbols makes it easy to learn and control Pavelog. On a single screen the current job status is clearly displayed.

## Real time production and quality checks!



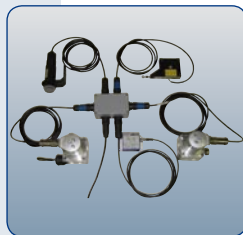
### X-30 display

- Indoor/Outdoor display
- Full colour, sunlight visible display with touch screen
- Rugged and ready for tough environments, no moving parts



### Main-screen example

- Complete overview machine situation
- Truckload information on-site
- Remarks or detailed information input



### RFID option

- Worldwide unique ID
- Battery > 7 years
- Tag installed in 2 min.
- Range 25 to 50 metres

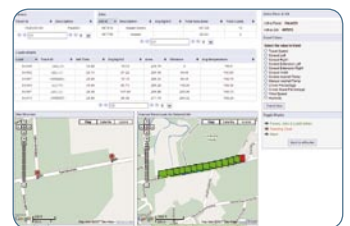


### Sensors in screed

- All sensor built in screed, no mounting and dismounting time for operation
- Depending of machine type machine sensors will be used

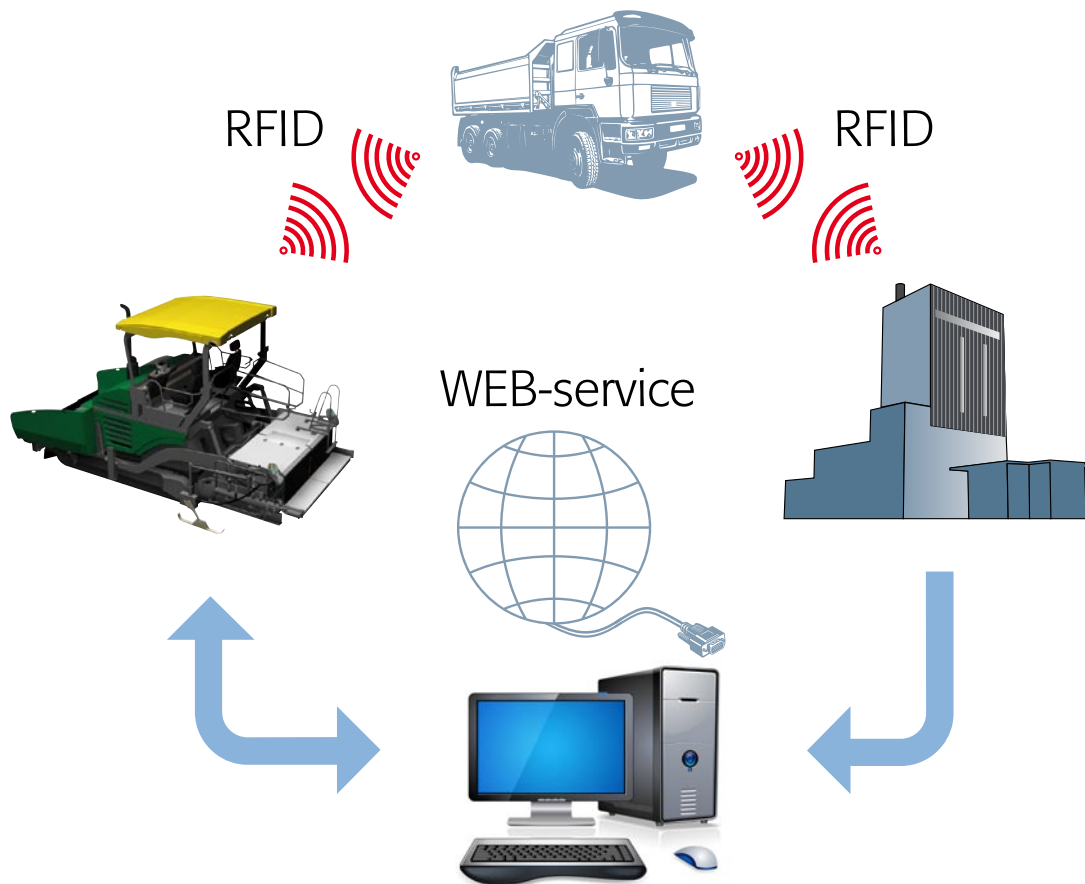
### Pavelog data

All data concerning production and quality are retrievable at the office at any time through the Internet. The communication for Pavelog is handled by a special communications server. Data is stored separately for every company and can only be accessed by specified users.



Fast, easy and safe!

## On-line quality control for road construction



### RFID option in Pavelog

Typical asphalt operations involve a fleet of trucks to haul the asphalt from plant to paver. Disagreements with haulers are not uncommon because information about arrival and departure times or time spent waiting at the paver is not easily measured. This operation can be improved by systematically tracing truck activities.

The RFID option in Pavelog uses RFID technology to trace transport activity. Trucks are equipped with a RFID tag and are traced from their arrival at the plant to their delivery at the paver and back. Ticket data, and production data, is also automatically captured and stored with the hauling data on an online database. The RFID option makes data collection automatic and reduces time and resource inefficiencies.



**It's time.**

### The Leader in Positioning Technology...

Topcon offers positioning products that deliver unparalleled site-wide performance and integration. Topcon's history of technological advances and our reputation for superior reliability means there's no other company positioned to provide you with a better "Total Positioning Solution."

From survey to inspection Topcon, through our dealer network, provides the innovative technology that gives surveyors, civil engineers, contractors, equipment owners and operators the competitive edge by addressing such critical issues as increasing profits, quality craftsmanship, improving productivity, lowering operating costs and enhancing job site safety.



Full positioning integration field-to-finish: That's the goal of Topcon. When it's time for you to step up to the next level, it's time to turn to Topcon.

### The Leader in Customer Satisfaction...

To ensure that your Topcon instruments maintains peak performance, your local Topcon dealer offers factory trained and certified service technicians. If service isn't available in your area, our European Service Center offers a repair and return policy second to none.



### Are you ready for the Telematic revolution?

With TopconTierra, web based telematic service, what you do on-board will be available from a remote location and all what you do in a remote office will be directly available on the vehicle operating on the jobsite.

TopconTierra has applications for machine control, agriculture, surveying and mobile business markets. These have different requirements for the data collected and data processing, but all are lead by TopconTierra through the portal which all data flows in and is accessible to you at all time. If you want to be a leader in these markets just join in partnership with Topcon's leadership and long experience.

Advanced technology, simple operation...

The real success of TopconTierra relies on providing critical data effortlessly to users. To ensure its success the system has been developed to provide seamless data transfer from and to infield equipment. The transfer of data always occurs in the background and does not require any effort from the user. In office data will be received in a format that is relevant to business or operational needs.



Day by day our service is growing with your business...

Telematics will become the decisive factor for the future. Adopting and utilizing the best technology for your business will help you to increase your productivity and profitability like never before.



Your local Topcon authorised distributor is: