COBO group

3B6®
systems division

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Implementing Data Logger Systems for Mobile Cranes

Purpose, Benefits and Specifications

October 2012

Why Data Logger?

If the mobile crane is equipped with a set-up button and/or a bridging device, then a data recorder shall be available that has to meet the following criteria…

- the data shall be recorded automatically, independent of the crane operator;

- each activation of the set-up button or of the bridging device, which leads to an overloading of the crane (greater than 100% of the set load chart), shall be recorded. Here, the percentage of the overloading shall be recorded;

- in addition, if the set-up button or the bridging device is activated, all data which are relevant to analyze the overload event shall be recorded;

- a suitable interface to read out the data shall be available;

- suitable measures shall prevent the manipulation of the recorded data;

- the function of the data recorder shall be automatically checked each time the crane is put into operation. A data recorder malfunction shall be indicated to the crane operator.
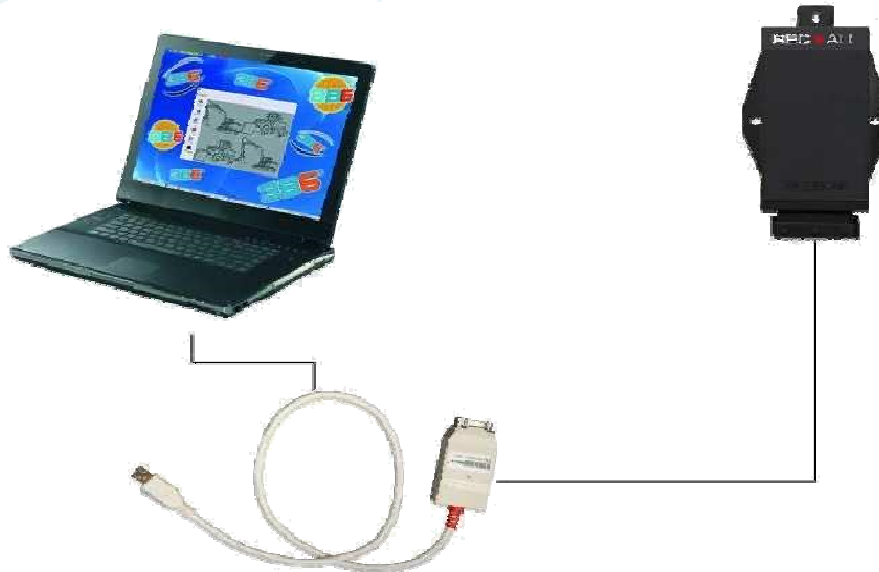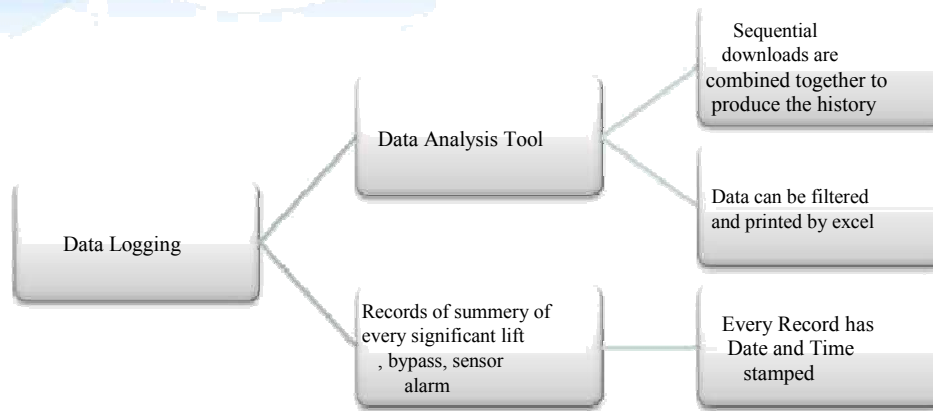
On The Machine

Offline

Data Logging

Data Analysis Tool

Sequential downloads are combined together to produce the history

Data can be filtered and printed by excel

Records of summery of every significant lift , bypass, sensor alarm

Every Record has Date and Time stamped

Event Description	When Logged
Lift Overload	Overload 110%, Overload 115%, Overload 120%
ByPass device	For each ByPass activation
System Alarm	Internal Alarm system
System login	Every times that the user log the system
Sensor CAN bus Timeout	Timeout from each CAN bus sensor
Customize alarm by Vt3	Customize Alarm

Event Description	When Logged
Time and date of all lifts	Overload over 110% 115% 120%
Crane configuration	into each event
Maximum per cent of rated capacity during lift	into each event
Load on hook, min/max radius, boom angle	For each Overload
Anti-two-block warnings	In Anti-two-block warning
Overload warnings and occurrences	For each overloaf
ByPass device	Every times on ByPass activation

- Accident investigation
- Maintenance
- Utilization
- Monitoring the usage of the crane for abuse
- Printed reports of data in useable format
- Operators will be more careful with awareness of the data logger
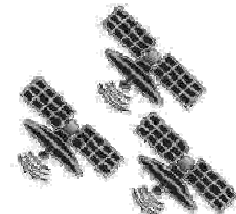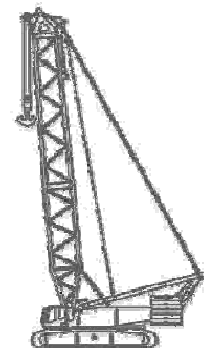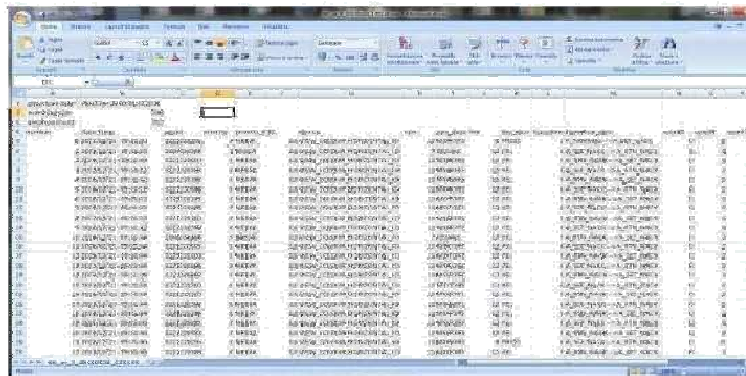
How it works!

Server

Internet

Your Office

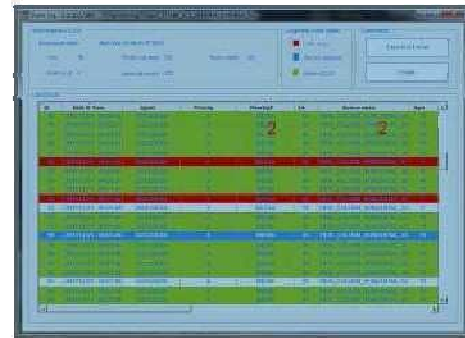control monitor

track & protect

Your Crane

It allows to export the Event Log in EXCEL format.

NOVA TESTINGS PTE LTD

280 Woodlands Industrial Park E5
#02-41 Harvest @ Woodlands
Singapore 757322

Tel: +65 6561 1002/6
Fax: +65 6561 2003
Email: sales@novatestings.com
Web: www.novatestings.com

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