TRELLEBORG

SmartDock® Docking Aid System Software

SmartDock® Software

Description

SmartDock® software processes data from laser sensors located on the jetty and determines the speed, distance and angle of the approaching vessel. It provides a clear and concise graphical view of the docking phase and outputs the information for vessel pilots. The display also provides data from integrated environmental systems installed at the terminal.

> Standalone or Integrated, the Trelleborg Docking Aid System helps with the safe berthing of vessels at today's marine terminals.

Once the vessel has berthed, SmartDock® will measure and log transverse drift and alert operators when mooring lines need attention.

All docking datas logged in session files and reports can be generated in graphical or table form. The logging function also enables the docking manouvre to be replayed on the display screen.


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1 SPECIFICATIONS		
1.1	Operating System	Windows
1.2	Operating Modes	• Approach • Drift • Departure
1.3	Measurements	• Vessel distance • Vessel speed • Approach angle
1.4	Logging Intervals	Every second (nominal)
1.5	Berth Configurations	Single, dual or multiple
1.6	User-defined Alarms	• Speed and drift • Audible: Computer-generated beeping • Visual: Colour coded data read-out panels; yellow=warning, red=alarm
1.7	Docking Speed Bands	Up to four may be set, each with a warning speed limit and an alarm speed limit
1.8	Number of Laser Inputs	Two normally, but the software can be reconfigured for multiple laser pairs to accommodate different vessel sizes
1.9	Data Logging	• Docking: Every second (nominal) • Transverse drift: Every 10 seconds, reduced to every two seconds in the event of a drift alarm. Users can redefine this interval to two seconds to capture significant events. • Daily event logs record all alarms in chronological order • All data is time-stamped
1.10	Log Files	Binary format exportable as comma-separated variable (CSV)
1.11	Maintained History	• Docking sessions • Recording dates and times • Vessels • Pilots
1.12	Reporting	• Reports provided in APPROACH, DRIFT and DEPARTURE modes • User-defined date and time periods for both graphical and table formats
1.13	Vessel Database Parameters	Name, DWT, draft, LOA, freeboard, beam, owner, ballast, barrels, callsign and comments
1.14	Integration Options	• Environmental monitoring • SmartHook® Load Monitoring

Example of Report Chart:

Time Vs distance
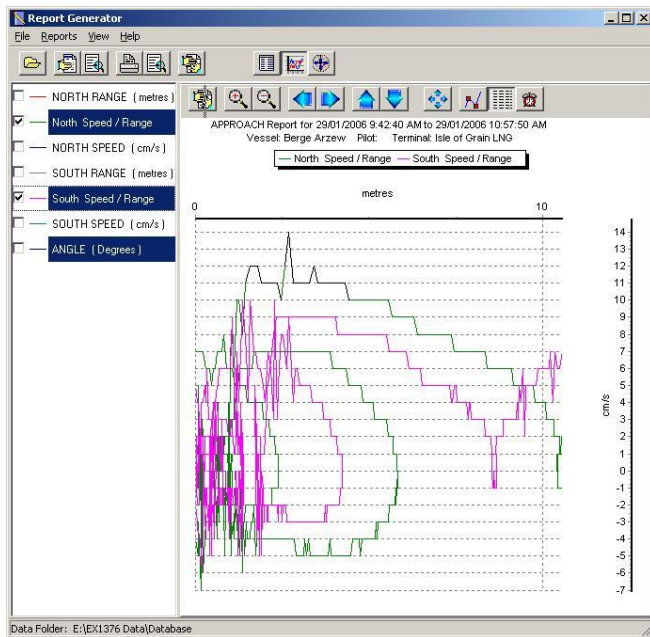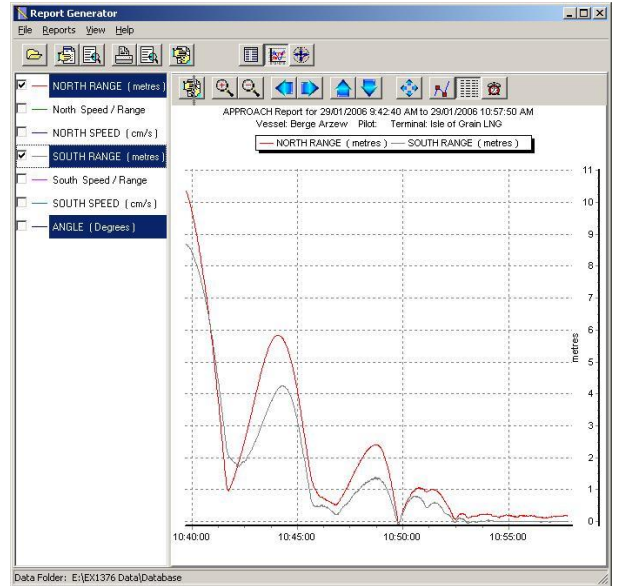
Example of Report Chart:

Speed vs distance over last 10 metres

Trelleborg Marine Systems' commitment to continuous product improvement means that we reserve the right to upgrade and modify equipment and systems without notice as technological and operational parameters demand.

For Further information, please contact:

Trelleborg Marine Systems Melbourne Pty Ltd
Virginia Park, 9 South Drive, 236-262 East Boundary Road
East Bentleigh, Victoria 3165
Australia
Tel: +61 (0) 3 9575 9999, Fax: +61 (0) 3 9575 9900
Website: www.trelleborg.com/marine
Email: mooring@trelleborg.com