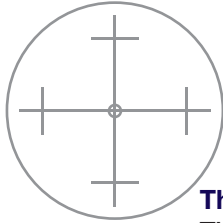


ParkerPMS™

Position Monitoring System



Key features

- Position surveillance and documentation
- Logging of sensors data & system printouts
- Position QC and calculation
- Data presentation
- Alarm generation
- "Off the shelf" components
- Windows
- Easy to use
- HMM
- ParkerRPMS™
- GPS heading and gyro calibration

The ParkerPMS™

The Parker Position Monitoring System is a standalone vessel position surveillance system.

ParkerPMS™ is verifying the sensor quality and presents information in various panels. The system interfaces to all navigational sensors, attitude sensors, environmental sensors, the DP and more. The panel information can be changed according to the user needs. The system can be interfaced to a flow meter with a new information panel and alarms.

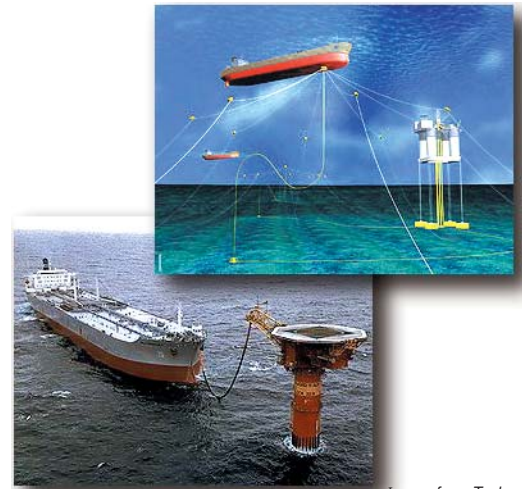
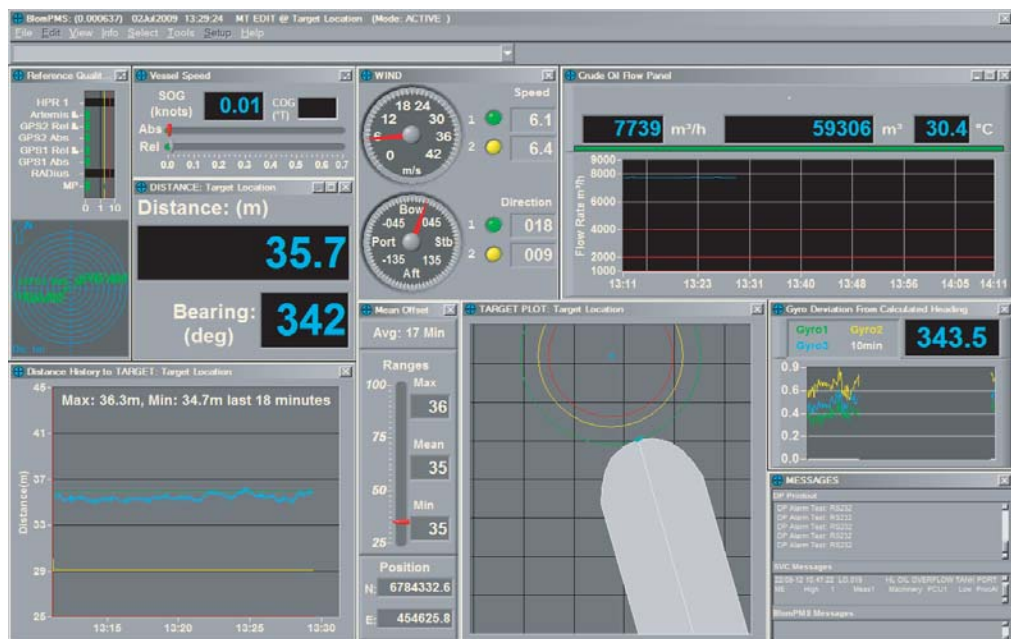


Image from Teekay

The ParkerPMS™ is designed for shuttle tankers and support vessels used world wide during offshore loading operations and transit as well as on research vessels.



Brief Description

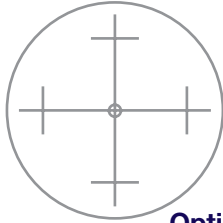
The ParkerPMS™ is receiving data from the vessels' positioning systems and sensors, executing the following main tasks in real-time:

- **Position Calculation:** Distance and bearing to target, based on the average position, is continuously displayed together with historical data.
- **Position QC:** The sensors are checked for stability and availability.
- **Data presentation:** Selectable graphical and numerical panels are used for data presentation. The display layout is user configurable.
- **Alarm generation:** Audible/visible alarms for speed, position variance, out of warning zones etc.
- **Data transmission:** Transmit ParkerPMS data to remote control rooms on an FSU/FPSO (ParkerRPMS™).
- **Logging:** Binary data is logged for 90 days and then overwritten. Data will be logged in their raw format without filtering of the data.
- **Reporting:** Upon client request, all logged data can be unpacked and analyzed. Data can be presented as a 'video' and written reports.
- **Flow meter:** Information panel, alarms and logging.



ParkerPMS™

Position Monitoring System



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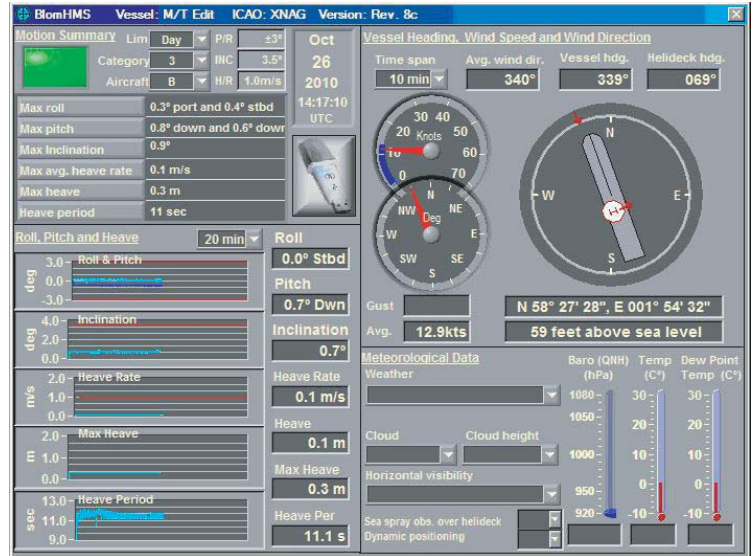
Optional

The ParkerPMS™ can be upgraded with the ParkerHMS, Helideck Monitoring Module . The ParkerHMS monitors, logs and displays the Helideck movements. The information can be reported to the helicopter crew.

A Remote Position Monitoring System (ParkerRPMS™) for the platforms (FSU, FPSO) was released in 2003. This system receives the shuttle tanker's ParkerPMS™ information via a radio link. Please check the ParkerRPMS™ brochure.

Other features may be developed and implemented on customer's request and specifications.

The ParkerPMS™ is installed on more than 65 shuttle tankers and support vessels operating in the waters outside UK, Brazil, Canada and Norway. In the recent years several incidents have been investigated where the logged data from the ParkerPMS™ has been essential to the incident investigation.



HARDWARE SPECIFICATIONS

Housing:	19" mini-rack, housing the computer and keyboard, equipped with shock absorbers to soften the vessel vibration.	Interface Box:	Equipped with signal converters / isolators making the system very robust against common mode voltages and ground loops. Depending on the sensors, the signals will be converted to signals understood by the BlomPMS™.
CPU:	Industry PC standard	Telemetry:	License free 2,4 GHz radio housed in an IP67 stainless steel cabinet.
Disk storage:	At least 120 GB.	HMS requirements:	Vertical reference sensor with heave Weather station Wind sensor Heading sensor Position sensor
Operator devices:	Keyboard and a track ball that will stay stable on a table when the vessel is rolling or pitching.	Flow meter requirements:	Flow meter interface box The flow meter itself is supplied by others
IO:	18 serial I/O lines is delivered as standard.		
Monitor:	19" tft/lcd flat panel monitor, approved by several classification societies.		



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