



DESCRIPTION OF DRAFT SURVEY ONLINE SOFTWARE

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## BRIEF DESCRIPTION

This sophisticated software corresponds to the appropriate hardware (system of Tanks/C.H. sensors), that contributes to achieving robust and real time monitoring onboard vessel of loading/unloading operations based on distance sensors' measurements and wireless data transmission online to a Central Unit for further processing.

DRAFT SURVEY ONLINE software processes the signals from sensors and generates in turn real time values at design draft reading marks positions, in order to have log of actual drafts occurred in certain loading /unloading operation.

In that way, real time cargo loading/unloading quantity is being assessed along with the displacement, mean draft, trim, list, Deflection, Air Draft from Radar Mast, Air Draft from Hatches, propeller immersion.

Particularly, concerning cargo operation monitoring, based on the desired cargo determination, current and rest cargo quantities are defined with indication of elapsed time, expected completion of charging/discharging operation and cargo rates for last 10/20/60 min.

Also, the software allows the user to set restrictions in terms of Load Zone and Port Draft and Air Draft from Hatches and Radar Mast Restrictions as warnings for the whole monitoring of operation.

## COMMUNICATION BETWEEN VESSEL AND OFFICE

In every onboard use of software, automatic synchronization of data between vessel and office is effected.

Besides above automatic data/entries synchronization, there is, also, the option, the entries to be exported and imported on every installed software.

The office version as fleet based, includes the list of the whole fleet and the user can select a certain vessel in order to examine further her records.

New	Open	Save	Delete	Print	Log File	Sensors	Start	Stop	Drafts	Put	OK	Initial	Set	Go	Chart	Restrictions	Settings	Exit			
Code : <b>Test907</b>		Location : <b>Uruguay - Mercedes</b>										Date : <input type="text"/>									
Notes : <input type="text"/>												Cargo : <b>Grain</b>		Search		Delete					
Draft Marks(M)										Weights (MT)											
			FORWARD		MIDSHIP		AFT		Ship		Remaining		Known (Tanks)		Cargo						
A/A	Date	Time	Port	Stbd	Port	Stbd	Port	Stbd	Displacement	and Constants	Total	Discharged									
Initial	8/7/2013	19:49:00	11,97	13,80	7,93	12,99	6,61	9,53	39.260,5		30.622,5	0,0	0,0	15689							
1	8/7/2013	19:49:00	11,97	13,80	7,93	12,99	6,61	9,53	39.260,5		30.622,5	0,0	0,0	15689							
2	8/7/2013	19:50:59	11,92	13,74	7,86	12,94	6,57	9,48	39.060,3		30.622,5	0,0	-200,2	15691							
3	8/7/2013	19:51:59	11,90	13,71	7,86	12,91	6,55	9,45	38.959,7		30.622,5	160,6	-461,4	15692							
4	8/7/2013	19:53:00	11,88	13,68	7,83	12,89	6,53	9,42	38.859,7		30.622,5	160,6	-661,4	15693							
5	8/7/2013	19:54:00	11,85	13,65	7,81	12,86	6,51	9,40	38.759,7		30.622,5	160,6	-661,4	15694							
6	8/7/2013	19:55:00	11,83	13,62	7,78	12,84	6,48	9,37	38.659,1		30.622,5	160,6	-762,1	15695							
A/A : 6		Date : 8/7/2013		Time : 19:55:00		Position :				Density MT/m <sup>3</sup> <input checked="" type="checkbox"/>		1,0250									
Weights										Dead Weight (MT)		Loss due to deflection									
BW Total		FO Total		DO Total		LO Total		FW Total		Other Total		Grand Total		Recalculate		1,9					
0,0		0,0		137,5		23,1		0,0		0,0		160,6									
Drafts										Air Draft from Radar Mast (M)		Propeller Imersion (%)									
Draft at Perpendiculars (M)			Mean Draft (M)		Trim (M)		List (DEG)		Deflection (CM)		Sagging		35,24		50,94						
FP		MS		AP		(Mean of means)		by Stern		by Port											
12,75		10,33		7,64		10,29		2,55		-12,38		-13,53									
Cargo										Discharged Cargo Expected Date/Time		Discharged Cargo Rates (MT/hour)									
Desired (MT)		Current (MT)		Rest (MT) to be		Passing Time		Discharged		Date		Time		Remaining Time		Last 10min		Last 20min		Last Hour	
Discharged		Discharged		Discharged		Discharged		Date		Time		Remaining Time		Last 10min		Last 20min		Last Hour			
-1.000,0		-762,1		-237,9		6 min 0 sec		8/7/2013		19:56:52		1 min 52 sec		-7.620,6		-7.620,6		-7.620,6			
Air Draft from Hatches										Warnings											
MAXIMUM Air Draft from Hatch										Restriction											
NO6 C.HOLD Hatch = 8,20 m										Limit											
NO1 C.HOLD Hatch = 6,47 m										Actual											
NO2 C.HOLD Hatch = 6,78 m										%											
NO3 C.HOLD Hatch = 7,14 m										Remarks											
NO4 C.HOLD Hatch = 7,53 m										Deflection (cm)											
NO5 C.HOLD Hatch = 7,85 m										17,80 13,53 76% Sagging											
NO6 C.HOLD Hatch = 8,20 m										Load Zone - Summer											
										10,00 10,33 103% MID CL											
										Draft Restr. at Port (m)											
										11,00 13,62 124% FRW SRBD											
										Air Draft Restr. from Hatches (m)											
										9,00 8,20 91% NO6 C.HOLD Hatch											
										Air Draft Restr. from Radar Mast (m)											
										35,00 35,36 101% Radar Mast											

**WE CAN SAIL TOGETHER.....**

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