

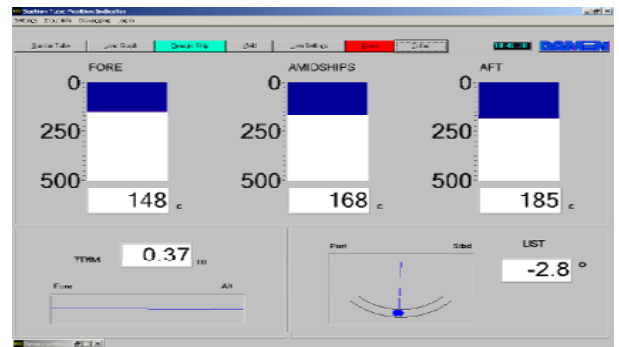
## LOAD AND DRAUGHT INDICATOR (L&D)

### GENERAL

The Load and Draught Indicator is based on the measurement of the hydrostatic pressure from two high accurate pressure transmitters positioned "FORE" and "AFT" on the vessel's keel.

The transmitter assembly consists of a certified stub-pipe, shut-off valve and a T-pipe piece with pressure transmitter and venting pipe for de-aeration. The certified stub-pipe is flush-welded with the vessel's hull. The pressure sensors can easily be inspected and serviced, without dry-docking.

The X, Y and Z transmitter positions are taken into account to calculate the draught FORE and AFT for the perpendiculars and amidships. Due to this measuring principal the heave is hydraulic smoothed.



For the load calculation the careen-diagram and hopper sounding table of the vessel is incorporated into the computer program.

The system consists of a PC with a 15" TFT Flat Panel Monitor, a keyboard and a trackball for:

- selection of the various screen pages
- configuring and selection draught locations
- testing and calibration

#### BASIC CONFIGURATION:

- Presentation of the load graph
- Presentation of the draught of the ship
- Presentation of the trim (in degrees as well as in meters)
- Error screen
- Loading in plain figures
- Delivery off all necessary transmitters
- Cabinet containing PC, UPS, and connections for all components
- Electrical schemes and documentation in English

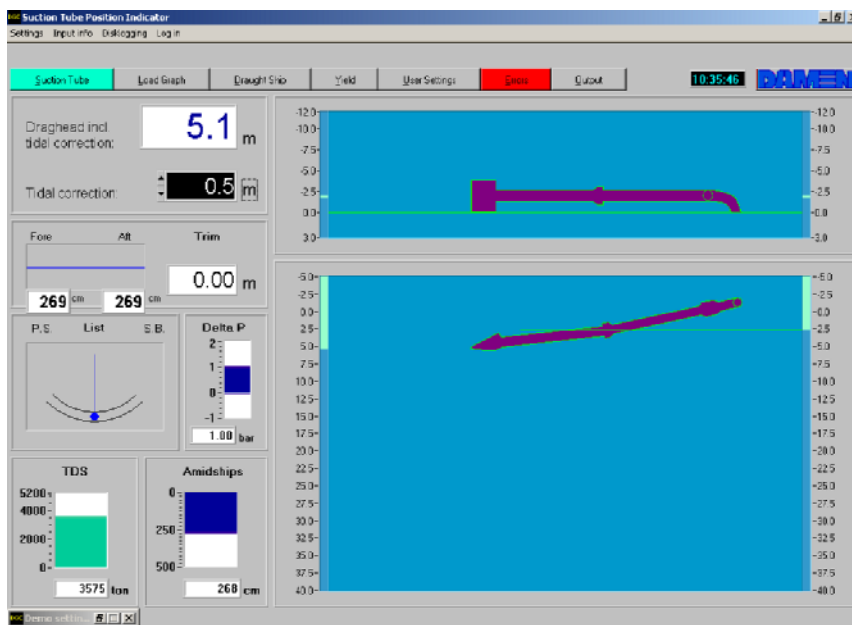
#### OPTIONS:

- Presentation of the list
- Pingers for hopper level measurement
- Printing of Loadgraph
- Data output to ASCII-file
- Data output for linking to other systems (i.e. survey system)
- Digital alarm outputs
- Presentation of the tonnes dry material(TDS)
- Documentation in other language
- Mounting, cabling and commissioning of the system

It is also possible to incorporate the suction tube position into this system, which provides the customer all necessary information of the dredging process in one program.

In a network configuration the several screens can be displayed at different monitors. (i.e. dredgemaster and skipper)

#### THE STPI SCREEN (OPTIONAL)



Please contact us for further information or a free demo package of the program.

## LOAD AND DRAUGHT INDICATOR (L&DI)

# DAMEN

DAMEN DREDGING EQUIPMENT

Member of the DAMEN SHIPYARDS GROUP



Edisonstraat 32  
3861 NE Nijkerk

P.O. Box 1021  
3860 BA Nijkerk  
The Netherlands

phone +31 (0)33 247 40 40  
fax +31 (0)33 247 40 60

info@damendredging.com  
www.damendredging.com