

Connect-TH
Dedicated System for Measurement and
Display of Vessel Trim, Heel, and Draught



Key features

- Suitable for all Vessel Types
- Purpose designed data acquisition and display system offering a choice of Trim and Heel only or Trim, Heel, and Draught, to 2 or 4 points
- Screen layout is designed for maximum clarity of information
- Light & Dark mode (Day / Night) display
- Instantaneous / averaged values
- Multiple display locations
- Space efficient display suitable for console or wall mounting
- Serial data output to Vessel Platform Management System
- Simple low cost installation



The Scanjet PSM Connect -TH system is based upon the established Scanjet PSM range of Marine tank contents gauging systems and configured specifically for the monitoring and display of vessel trim, heel and optionally, draught at 2 or 4 points.

Comprising a central processing module with a 7" touchscreen, and a single remote wall mount enclosure with dual inclinometers to measure trim and heel angles, the system is supplied pre-configured with all parameters relevant to the intended application.

Installation is simple, the display can be located as required in the bridge / control room requiring only a single 24V DC supply, and the inclinometer enclosure on a suitable vertical bulkhead, with a single 4 core interconnecting cable.

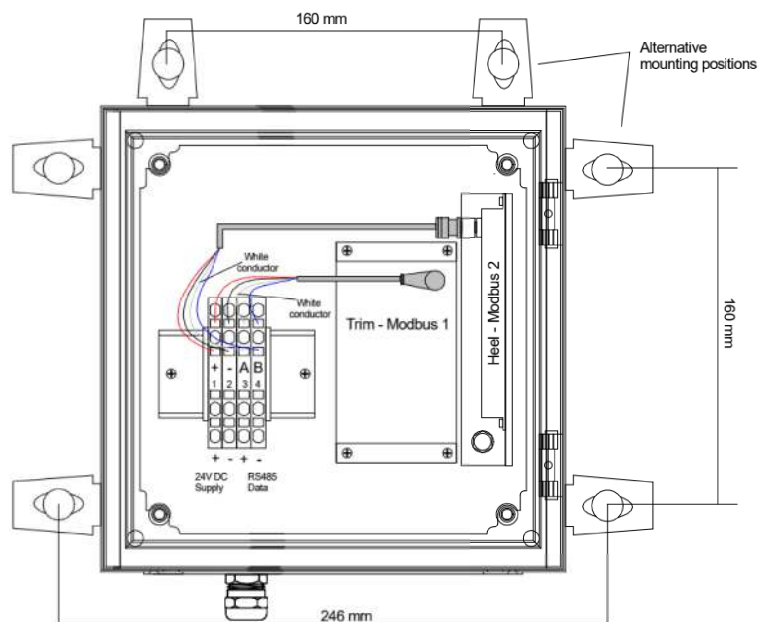
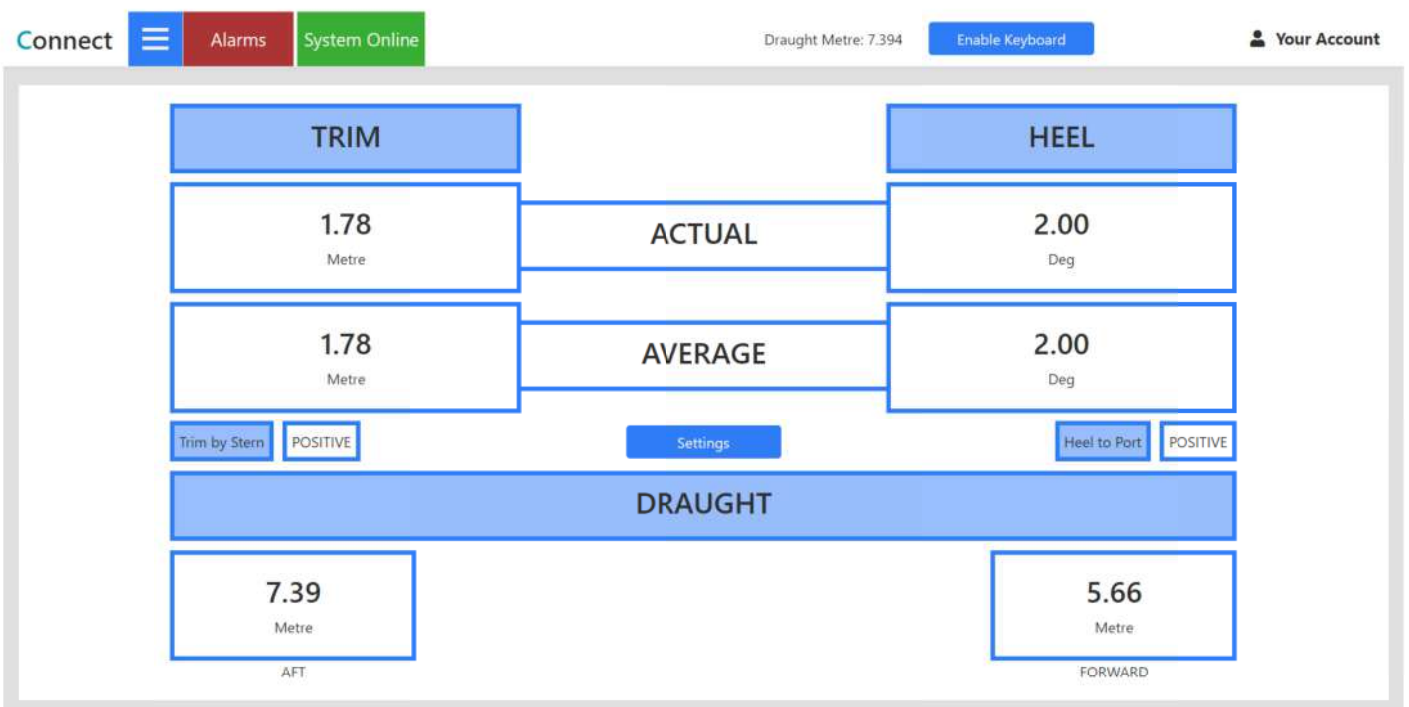
Repeater displays can be added as required and are connected to the primary display via a dedicated Ethernet link.

The system includes correction parameters to allow the installer to correct for the "as fitted" position of the inclinometer panel to ensure true zero at even keel conditions.

In operation the user can switch between 2 themes, dark and light, for night / day operation and the averaging period can be adjusted to optimise stability of reading for the averaged values of Trim and Heel.

Where draught measurement is also required, Scanjet PSM's APT1000 series of hydrostatic transmitters are added. These, like the inclinometer panel, communicate to the primary display via a 4 core cable carrying both 24V DC power and the Modbus RS485 communication.

A further RS485 port on the primary display allows connection to the vessels central AMS / Platform Management System. The exchange protocol is standard Modbus RTU where the AMS/PMS is Modbus master and the Scanjet PSM system is Slave.

Software interface showing Trim, Heel, and Draught data. The interface includes a top navigation bar with 'Connect', 'Alarms', and 'System Online'. The main display area shows:

- TRIM:** 1.78 Metre (Actual), 1.78 Metre (Average)
- HEEL:** 2.00 Deg (Actual), 2.00 Deg (Average)
- DRAUGHT:** 7.39 Metre (AFT), 5.66 Metre (FORWARD)

Additional controls include 'Trim by Stern', 'POSITIVE', 'Settings', 'Heel to Port', and 'POSITIVE'.