



TSX5 Shaft
Power Meter

SeaTechnik Shaft Power Meter (TSX5) for Marine Shaft Torque, Speed, Thrust and Power Measurement

- High accuracy and repeatability
- Digital system for data processing
- Full data connectivity via all formats
- Thrust measurement option
- All units include display for data and diagnostics
- Optional thrust measurement
- Essential instrument for energy optimising

TSX5 Shaft Power Meter

The SeaTechnik TSX5 Torsionmeter employs a full strain gauge bridge - the most accurate method of measuring torque.

The strain-gauges detect the minute deformation of the shaft under torque and convert this strain into a small analogue voltage.

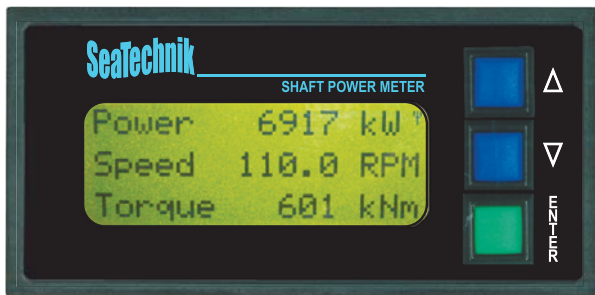
Non contact electro-magnetics energise the rotor circuitry which converts the small signal into digital data for transmission to the local stator unit.

A local multi-page display or control console version is an integral part of the TSX5.

The user can read at any time:

- Instantaneous power, torque and revs/min
- Cumulative power and revs
- Set-up data via a supervisor level
- Diagnostic data

The display enables resetting of zero torque at periodic intervals.



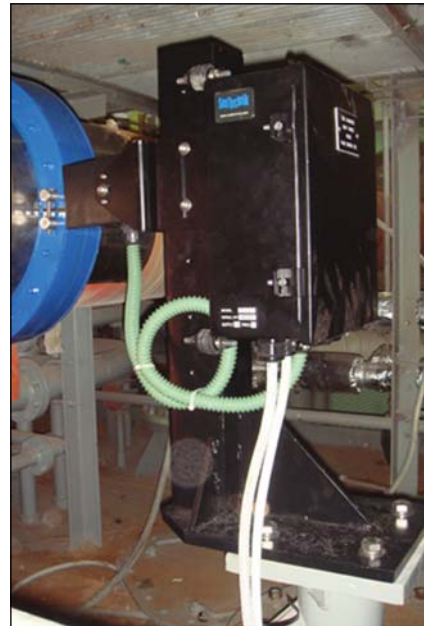
TSX5 Remote Display Panel.

Specifications:

- Power Accuracy $\pm 0.25\%$ FSD
- Torque Accuracy $\pm 0.25\%$ FSD
- Speed Accuracy $\pm 0.01\%$

Connectivity:

Outputs to Integrated Automation System (IAS), Distributed Control System (DCS), Main Automation Contractor System (MACS) and Ship Performance Monitor (SPM) systems are standard via galvanically isolated 4..20mA, or serial data ports. Data for trials or machinery investigation can even be read by direct connection to a laptop computer.



A Typical TSX5 Installation

Service & Support

Trelleborg Marine Systems UK has been designing, manufacturing and supporting leading edge marine energy management and safety systems for over 20 years. With the Head Office located in Northwest UK, a team of experienced service engineers and performance analysts / specialists provide installation, commissioning and in-service support worldwide. The worldwide team includes dedicated staff in our Korea and Singapore offices.

A network of experienced sales/technical agents and associates worldwide provide further support, and ongoing technical training is offered to both customers' and associates' engineers worldwide.