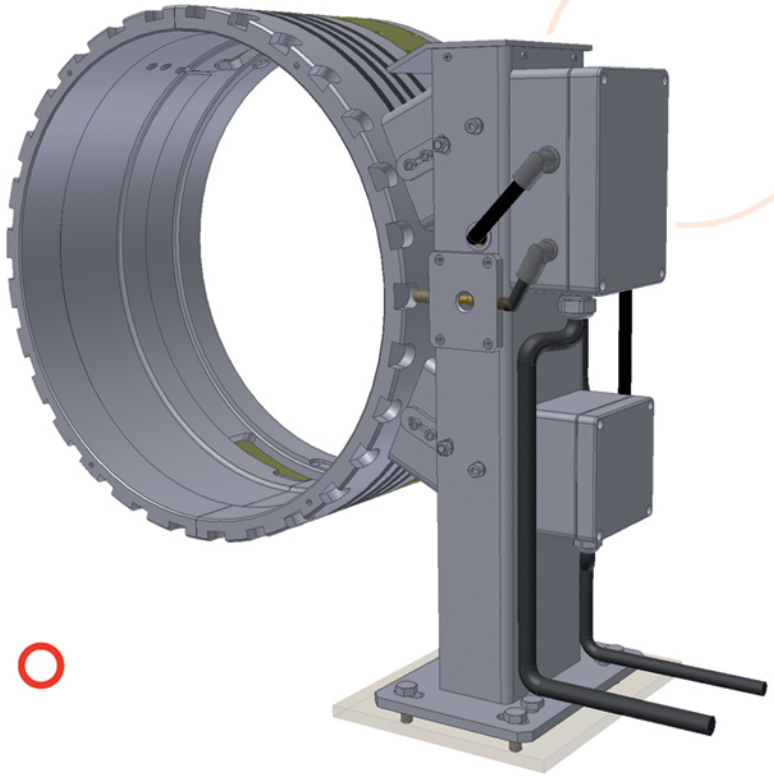
BOB*Lab* d.o.o.
GOOD VIBRATION

Aleja pomoraca 13, HR-10020 ZAGREB
Tel.: +385 98 319 737, Fax: +385 1 655 4669
E-mail: boblab@inet.hr
www.boblab.hr

BOB*Lab* Marine Digital Torsionmeter System
Type 515-07



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OVERVIEW

System highlights:

- modular, flexible and customizable digital measuring system
- suitable for permanent installation in ships and industry
- compact and robust mechanical design with anticorosive protection
- simple installation and servicing
- suitable for all shaft sizes
- high-accuray torque, power and rotational speed measurements
- high temperature stability and noise immunity due to digital data transmission and processing (no information degradation between sensor and control module)
- excellent long-term measuring stability
- highly simplified calibration procedure
- automatic long-term zero drift compensation
- built-in failure indicators
- programmable analog (4 – 20 mA) and/or digital (RS – 232, RS – 485) signal outputs
- signal outputs galvanic isolation 2500 V_{RMS}
- wide working temperature range -20 – 70 °C

Measuring quantities:

- torque, power, rotational speed (averaged)
- shaft direction indication (ahead / astern)
- support for torque bidirectional measurements

Accuracy:

Due to the 24-bit A/D conversion the overall system accuracy of the electronics is better than ± 0.02 % F.S., with negligible temprature drift (less than 5 ppm/°C) and no components aging effects. System linearity is better than 20 ppm of full scale.

User interface:

1 programmable color LCD graphics display 320 x 240 (optional)

BLOCK DIAGRAMS

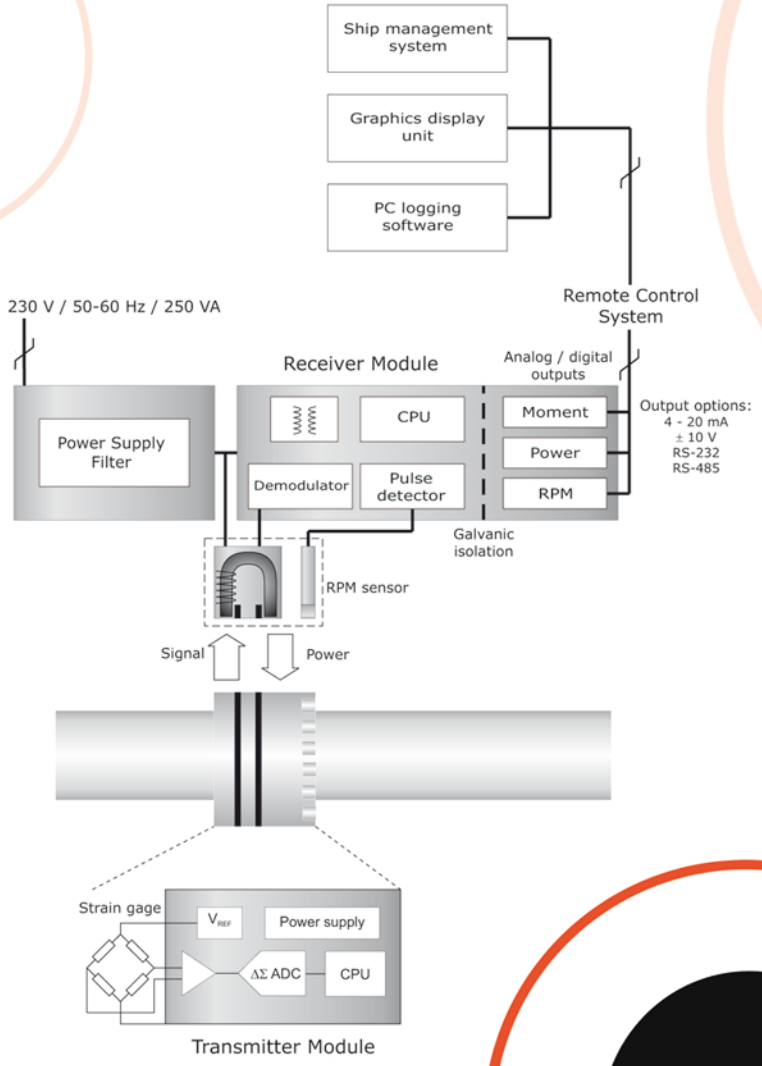

Fig 1. System block diagram