High Level Engineering

enamor ltd.

ETNP-10

Propulsion Control Assistance System

REDUCE FUEL CONSUMPTION

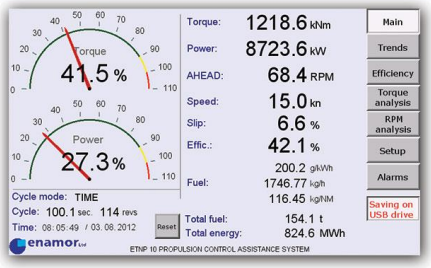
- ❑ Optimal Main Engine load.
- ❑ Fuel consumption reduction.
- ❑ Dangerous propulsion overload avoidance.
- ❑ Preliminary Main Engine diagnostics.
- ❑ Continuous Main Engine energetic efficiency monitoring.
- ❑ Offline Office Analysis.

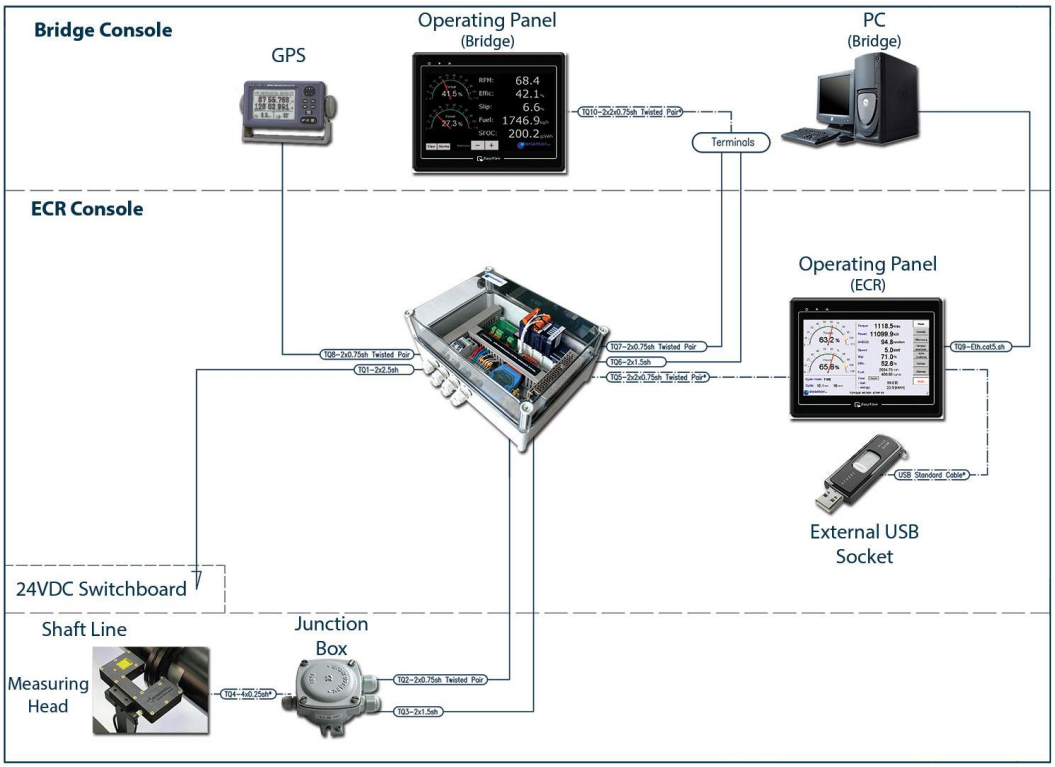
Economic ship operation bases on selecting an optimal relation between the cost of fuel consumption and the obtained transportation result, mainly the speed of a ship. **ETNP-10** provides all necessary information in this scope. Its basic function is continuous assessment of the load of the main propulsion engine, as well as signaling if permissible parameters have been exceeded.

ETNP-10 is an indispensable tool measuring torque and power delivered by the Main Engine to a propeller. It allows for accurate propulsion control, optimal trimming and precise shaft load control.

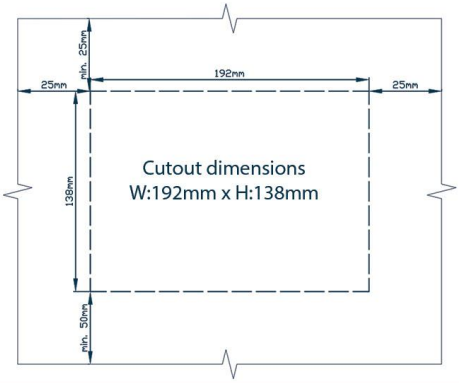
The possibility of continuous viewing of propulsion performance indications in real time, allows the crew for necessary adjustments to optimize propulsion efficiency, and thus, to reduce excessive fuel consumption.

ETNP -10 is also used as an engineering tool providing collection and assessment of data used in Main Engine diagnostics.

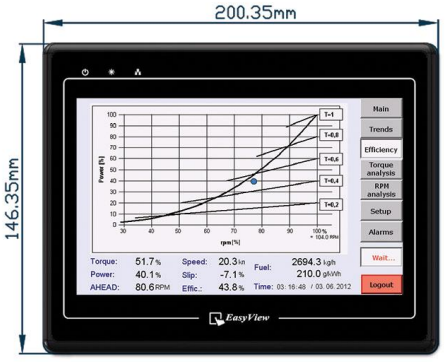




ECR Console / Bridge Console



Front View



TECHNICAL SPECIFICATION:

Power supply voltage:	24V DC or 90-260V AC 50-60 Hz
Power consumption:	25 W
Ambient temperature:	0-50 C
Shaft diameter span:	110 - 700 mm
Length of cylinders with toothed rings:	400 mm
Display Graphical Color Touch Panel:	7″
Revolutionary speed range:	20-600 min-1
Torque measurement accuracy:	0.1% nominal value
Power measurement accuracy:	0.1% nominal value
Revolutionary speed measurement accuracy:	0.1 min-1
Calculated fuel consumption measurement accuracy:	10 kg/h
Measurement time cycle:	Selected by operator (from 1 or 100 s)
Measuring head:	Based on laser diode and photodiode

Side View