



ENERGY MEASUREMENT

Continuous Monitoring of Electrical Power Consumption and Generation on Board.

The system measures electrical power of consumers and generators. It is easy to retrofit or to upgrade your existing Performance Monitoring System.

With HOPPE Energy Measurement System data, crews and fleet management can monitor and optimize energy flow, aiding in CII optimization, Reefer correction per MEPC.355(78) and emission reduction.

POSSIBLE LOADS

- Reefer Containers
- Cargo Pumps
- Refrigeration Systems
- Air Conditioning Systems
- Engine Room Fans
- Cargo Hold Fans
- Hotel Loads
- and much more..

POSSIBLE GENERATORS

- Auxiliary Generators
- Shaft Generators
- Shore Power / Cold Ironing
- Fuel Cells
- Battery Systems

AVAILABLE DATA PROCESSING

- Local display
- Local Web Application
- Ship to Shore Transmission
- Shore side API
- Data Analysis

PRECISE MEASUREMENT

- Electrical Power Measurement for individual loads or combined (e.g. single fans or reefer junction boxes)
- Individual electrical energy measurement for each generator
- Enables better load balancing and long time monitoring
- Existing energy measurements can be interfaced (AMS, PMS etc.)
- Retrofittable as well as possible for newbuildings
- Standardized hardware
- Affected regulations: MEPC.355(78), MEPC.328(76), MARPOL ANNEX VI

ROGOWSKI COIL

- Based on an open loop current measurement coil
- Measures contactless (magnetic field)
- Can be clamped on to any existing cable or bus bar
- Currents up to 10.000A (single and three phase)
- All energy measurement devices can be connected via bus line

OUR PRODUCT RANGE

CONTROL SYSTEM

- Valve Remote Control
- Anti-Heeling
- FLUME Box Tank — Roll Damping
- INTERING U-Tank — Roll Damping
- Dock Control
- Floating Condition Control

MEASURING SOLUTIONS

- Tank Content Measurement
- Bunker Management
- Draught Measurement
- Dynamic Draught and Floating Monitoring
- Maihak Shaft Power Meter
- Maihak SHaPoLi
- Fuel Consumption Measurement
- Electronic Inclinator

INFORMATION SERVICES

- Performance Monitoring
- Crew Connect
- Fleet Connect

FLEET SERVICES

- Technical Support
- Spare Parts
- Service On Board
- Retrofit

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