CMT
monitoring innovation

Manage EPLs reliably with PREMET®

A new regulation sets the target for CO2 emissions to be reduced by 40% in comparison to 2008. To comply with the EEXI requirements, engine manufacturers are implementing EPL systems. The idea is to reduce emissions by limiting the engine´s performance.
This reduction of engine power can be quite impactful on the schedule, so it should be set up precisely to the engine capabilities.

The IMO states, that under the EEXI every vessel needs to calculate their Engine Efficiency Existing Ship Index for the measurement of the energy efficiency for the CII Rating.

To achieve this calculation, engine manufacturers have introduced the EPL. Limiting the engine performance to keep engine emissions within given greenhouse emission standards.

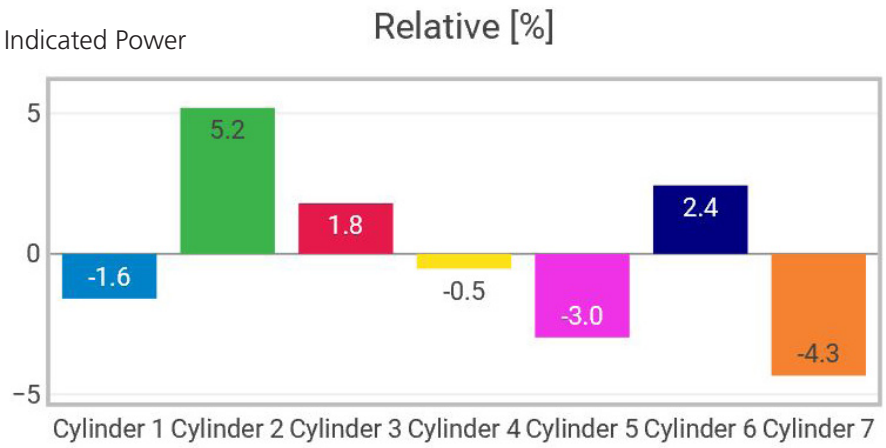
To set the EPL limits it is essential to have a trustworthy source for the power measurement.
A good solution is the use of the indicated power generated from combustion. To calculate the effective power engine manufacturers recommend using 1 bar friction pressure. With a shaft power meter, this is a quick and simple solution to comply with the new EXXI requirements, but it is not a widely available option.

An accurate reading from a PREMET® Device is an equivalently simple solution for all ships. With an industry leading 1000 kHz sample frequency the reading is always precise and quick.

Basing the EPL on data from a PREMET® X or M will give the most realistic effective engine performance.

This is essential to keep the engine within the limits set for the EEXI requirements, while simultaneously getting all available power from the engine.

Furthermore, the measurement from the PREMET X is instantly shown on the device screen. No need to transfer readings to a computer.



Ordering Information

DPA-CT-12020
PREMET® X

DPA-CT-12021
PREMET® M

Both with
- KISTLER Piezo-SMART-Sensor
- Analysis Software PREMET Viewer

DPA-CT-12025
PREMET® Online Software
(yearly subscription)