

## Maritime Suite: MARpems

### Ongoing scrubber compliance during a failure of continuous emission measurement

#### Maritime Suite:

The digital solution for the maritime industry. Digital services can be selected as needed.

#### Ongoing Compliance Assurance

Ensures no loss of emission data during continuous emission measurement failures, allowing gapless reporting to authorities and avoid an uncompliant status.

#### Cost-Effective Operation

Avoids ad hoc service interventions and plans appropriate fixes, leading to reduced operational costs.

#### Efficient Scrubber Utilization

Prevents over-scrubbing by optimizing scrubber efficiency based on real-time emissions data, reducing operational expenses and manual effort by the crew.

#### Approved and Certified

MARpems is endorsed by DNV with a 'Statement of Capability' and accepted by flag states.



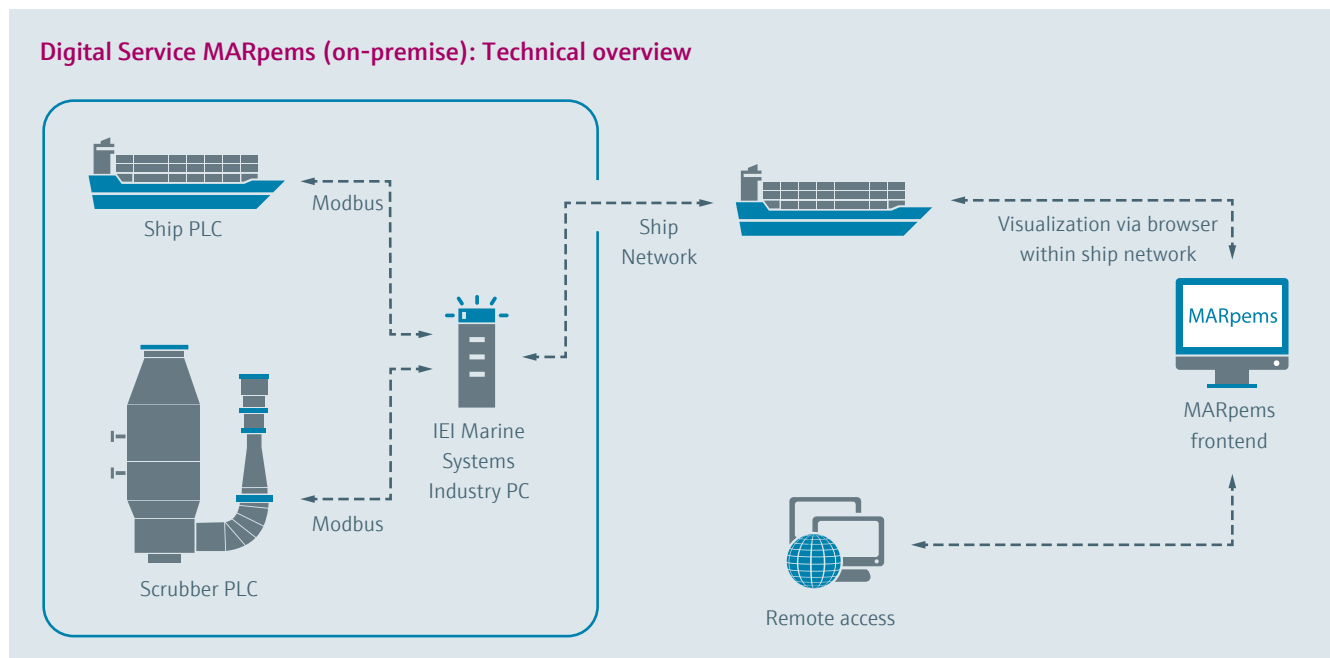
# Compliance, process reliability, increased efficiency with MARpems

Benefit from the experience of a leading manufacturer in maritime emission monitoring: With the Maritime Suite you gain more transparency over your fleet – tailored and in real time.

MARpems offers an efficient and reliable solution to maintain scrubber compliance during a single sensor failure of your continuous emission monitoring system. As part of the Maritime Suite, this digital service predicts compliance status and emission parameters using live data from the vessel's scrubber system for an increased availability of emission data. In case of measurement failure, MARpems ensures no loss of emission data and allows gapless

reporting to authorities, minimizing manual effort and optimizing scrubber efficiency, by using the customer-specific process parameters to predict emissions. This leads to the case, that an uncompliant status will not even occur in case of a single sensor failure of the CEMS and no manual effort will be necessary. All the data will be processed on an on-premise maritime industry computer, delivered by Endress+Hauser. With reduced operational costs and flag state approvals, MARpems is the user-friendly on board solution that streamlines operations and enhances environmental performance.

## Digital Service MARpems (on-premise): Technical overview



More information:

[www.endress.com/maritime-suite](http://www.endress.com/maritime-suite)

[www.addresses.endress.com](http://www.addresses.endress.com)