

Action code: WHEN CONVENIENT

PMI sensor calibration requirements

Replaces SL2019-672

SL2024-756/JCB
May 2024

Concerns

Owners and operators of MAN B&W two-stroke marine combustion engines.

Summary

High-quality pressure measurements can be ensured by calibrating the sensors in accordance with the proper requirements and recommendations.

Dear Sir or Madam

This Service Letter specifies the IMO requirements and manufacturer recommendations for calibration of the PMI pressure sensors, the calibration sensors, and the calibration box for engines in service.

High quality measurements will be ensured by following the requirements and recommendations listed in this letter.

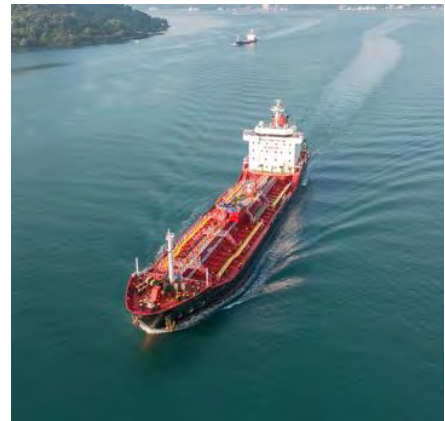
Yours faithfully



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Calibration interval

IMO requirements: IMO Marpol Annex VI, NO_x Technical code, App. 4, §1.3.2. Calibration.

	Sensor type	Calibration interval	Calibration certificate	Identification (for reference only)
IMO requirements	Fixed pressure sensor	12 months* (verification every 6 months is recommended)	No	
	PMI offline pressure sensor	12 months	Yes	
Manufacturer's recommendations	Calibration sensor	5 years	Yes	
	Calibration box	5 years	Yes	
	Connection cable	5 years (must be sent with the box)	No	

* Traceable calibration on the engine by using the PMI calibration sensor. New certificate not required.

Fixed pressure sensor

The fixed sensors are used for engine performance measurements, PMI Auto-tuning, which is initially calibrated when the system is commissioned.

In service, the fixed sensors are calibrated on the engine using the calibration sensor and the calibration box. Re-calibration must be performed at least once every 12 months. However, it is recommended to check the fixed sensor calibration more frequently, e.g. every 6 months.

Note: Do not blow through before connecting the calibration sensor. The high temperatures seen during blow through are known to damage the fixed sensors.

Our Service Letter SL2016-621 Lifetime of Fixed Cylinder Pressure Sensors provides more information about precautionary measures and maintenance of the sensors.

PMI offline pressure sensor

PMI offline sensors are used for engine performance measurements. Re-calibration must be performed at least once every 12 months at an approved calibration center and according to the manufacturer's specifications.

The sensor should be calibrated together with the PMI calibration box and the connection cable.

Calibration sensor and calibration box

The calibration sensor is a certified, traceable calibrated sensor which is accompanied by a calibration certificate. The calibration sensor and the calibration box must be recalibrated minimum every 5 years at an approved calibration centre and according to the manufacturer's specifications.

The calibration sensor is dedicated to the calibration of the fixed pressure sensors only. Using the sensor for any other purpose, such as frequently performing a manual engine performance measurement, will cause the calibration certificate to expire after 12 months in service.

For calibration or repair of the sensor and calibration box, or for general questions regarding this Service Letter, please contact MAN PrimeServ at:

CalibrationService-CPH@man-es.com

It is important that you state the vessel name as a reference when sending your consignments. This information is crucial for streamlining the handling process and ensuring accurate tracking and delivery of your packages.

It is also essential to either include a customs invoice with every package or upload it to the forwarding company in advance. This documentation is necessary for customs clearance procedures and contributes to the timely release of your shipments.

Failure to provide the necessary documentation may lead to delays and potential fees imposed by customs authorities. Specifically, customers are responsible for paying an accommodation fee for each day their packages remain 'stranded' due to missing documentation.



To guarantee the system efficiency, we recommend sending the calibration sensor, calibration box, and connection cable for calibration or service/repair together.