

JOINT DEVELOPMENT OF ABNORMAL VIBRATION DETECTION SYSTEM

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Vibration measurement technology is widely utilized for preventive maintenance and fault diagnosis of rotating equipment. The fluoropolymer based piezoelectric film sensor can be easily attached to any part of onboard machinery which requires vibration measurement without modification or alteration.

The noise cancelling system can eliminate influence of fluctuation of disturbance caused by weather and sea condition, laden quantity, or load change of main engine which may hinders vibration measurement of onboard machinery. Also, vibration detective sensor can send data wirelessly, which enables remote vibration measurement in dangerous or high places where human access is limited.

System is composed of tablet-type device, radio communication unit with battery and amplifier, fluoropolymer based piezoelectric film sensor. The tablet-type device is equipped with noise removing function, judging of abnormal vibration function, automatic creation of trend graph function and radio communication function so it can widely be used as preventive maintenance for marine equipment, inland industry equipment and plant relating equipment.

【System Composition】



MOLTECH will continue to contribute to the technology development for environmental protection and vessel's safe navigation.

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