

Optrand Introduces a New Generation of Cylinder Pressure Sensors for Marine and Industrial Engines

February 16, 2017

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PLYMOUTH, MICHIGAN ---- The newly designed AutoPSI-M Cylinder Pressure Sensor is now available for purchase from Optrand Incorporated. The device is optimized for long-term monitoring and control of marine and industrial engines.

The AutoPSI-M sensor offers drift-free, continuous detection of dynamic pressure or intermittent measurement of static and dynamic pressure. The robust sensor diaphragm resists prolonged engine knocking or detonation and is designed for cylinder pressure up to 350 bar (5000 PSI) or fuel pressure up to 2800 bar (40,000 PSI). Through the use of a metalized optical fiber and a high temperature glass seal, the core sensing element can operate at continuous temperatures as high as 450°C. The sensor head is available in a variety of thread sizes which connect via a rugged metal hose to a microcontroller-based signal conditioner with available voltage or current output and frequency response up to 20 kHz.

The low cost AutoPSI-M sensors target long-term monitoring and control of marine, industrial diesel, natural gas, or dual fuel engines and have a service life up to 30 thousand hours or 5 billion pressure cycles. The AutoPSI-M is presently undergoing ATAX directive compliance verification and certification by leading marine certification organizations and industrial Underwriter Laboratory (UL) listings are planned.

About Optrand

Optrand, Inc. is a Plymouth, Michigan based developer, manufacturer, and licensor of high temperature fiber optic pressure sensors for engine and industrial applications.