Optrand Introduces a Combustion Analyzer for Its Cylinder Pressure Sensors

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PLYMOUTH, MICHIGAN ---- The new CA3004A Combustion Analyzer is now available for purchase from Optrand Incorporated. The device is optimized for use with Optrand Cylinder Pressure sensors but can also accommodate piezoelectric sensors.

CA3004A series combustion analyzer has standard 4, 8, 16 channels and it can be extended to a larger number of channels. It enables crank angle-based data acquisition and real-time analysis of cylinder pressure, intake and exhaust pressure, fuel injection pressure, needle lift, and others. Engine states and thermodynamic parameters can be recalculated in off-line analysis. The device targets engine calibration, design, optimization, tuning, and simulation as well as vehicular road testing.

The Analyzer enables connection of eight Optrand Cylinder Pressure Sensor sensors requiring no separate sensor power supply. In addition, up to eight piezoelectric sensors can be connected as well benefitting from Analyzer's built-in charge amplifiers. Maximum supporting speed up to 64000 rpm. Support 2 stroke, 4 stroke, rotor engine and other types of engines. The combustion analysis software has the standard windows graphical interface, can directly control the data acquisition and processing, can carry on the on-line analysis and saves data without restriction. In addition, the parameters of the data file can be modified for offline analysis.

"Cylinder pressure measurements using the CA3004A provide analysis results for display and logging while the engine is operating. Instantaneous availability of combustion results facilitates the implementation of automated calibration and optimization" says Dr. Marek T. Wlodarczyk, Optrand's President & CEO.

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.