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Belousov E.V. Studying the temperature characteristics of optical fiber sensors used for indicating the operation of internal combustion engines. / E.V. Belousov // Internal combustion

engines. – 2009. – № 1. – P. 128-130.

This paper gives the results of experimental investigation of

impact produced by different temperature conditions on optical

fiber inertia –free pressure sensors used for indicating the piston-

type ICE operation procedure. It is established, that the

character of a received signal is greatly influenced by nonlinearities

of thermal characteristics of an emitter and photodetector

presented by semiconducting devices, photodiode and phototransistor

as well as by thermal nonlinearity of the built-in

FET-based repeater arranged in sensor housing. Tаblе. 1. Il. 3.

Bibliogr. 7 names.