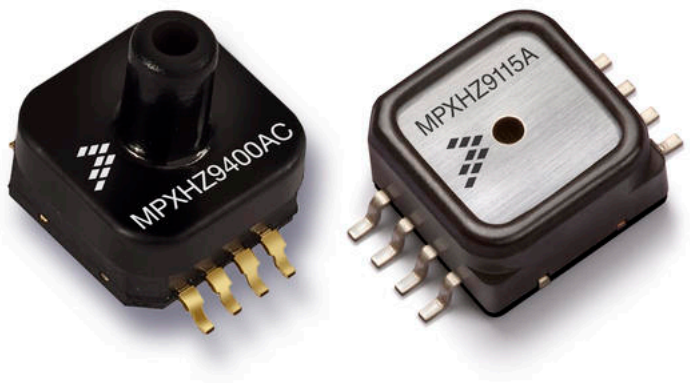
Pressure sensor designed for automotive engine management, efficiency applications



Freescale Semiconductor is adding three new pin-for-pin compatible pressure sensor replacements for the MPXHZ6000 family to its portfolio of Xtrinsic pressure sensors for automotive engine management and efficiency applications. The MPXHZ9000 absolute temperature compensated, piezo-resistive pressure sensors provide the same trusted functionality as Freescale's other integrated pressure sensors, while adding clipping functionality and the ability to customize for multiple end user applications.

Freescale's latest MPXHZ9000 pressure sensors come with package porting and mounting options, offering significant advantages for the automotive engine control market as well as consumer and industrial applications. The MPXHZ9115A is a non-ported sensor for fuel-injected car engines, motorbike and scooter engines and comfort seating and lumbar applications. The MPXHZ9400AC and MPXHZ9250AC are ported versions with tube attachments for applications such as alternative fuel or hybrid/electric vehicles, liquid propane gas (LPG) or remote sensing.

The MPXHZ9000 family of pressure sensors has two new distinct features—factory programmable output clipping and loss of supply/ground output diagnostics. The MPXHZ9000 family can be ordered with factory programmed ratio-metric clipping levels. In addition, these sensors are designed to detect loss of supply or loss of ground conditions and to signal the host controller with output levels outside of the normal operating range.

The MPXHZ9000 pressure sensors use a five-volt power supply and can sense pressure ranging from 15 - 400 kPa. The sensors are available in a durable thermoplastic eight-lead surface mount package that uses the same pin-out as existing MPXHZ6000 family pressure sensors for easy pin-for-pin compatible design with no board layout change required. In addition to Freescale's proven sensor technology, customers benefit from the two-die solution and no laser trimming resulting in less test time.

Freescale Semiconductor
www.freescale.com [1]
(512) 895-2000

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Links:
[1] http://www.freescale.com