



Sensata
Technologies



APPLICATION NOTE

PRODUCTIVITY & PERFORMANCE FOR ENGINE & EQUIPMENT CONTROL SYSTEMS



PROBLEM:

Today's agriculture machinery needs to do more, be more productive and operate under harsh conditions ... all while being more fuel efficient and providing better operational safety. This places challenging demands on engine and equipment systems for fuel, transmission, oil, and hydraulic diagnostics and controls. New, sophisticated closed-loop controls, operating under searing heat, high vibration, dusty or frigid conditions require a new generation of pressure sensors that provide fast, responsive and accurate readings.

THE SOLUTION:

Sensata Technologies provides the agricultural equipment industry with a range of precision pressure sensors for a host of productivity, equipment protection, engine control, fuel efficiency and safety systems.

Engine Oil and Fuel Pressure Sensing

The 60CP & 70CP series from Sensata are ideal for monitoring oil pressure to protect engine components. These sensors are compatible with diesel fuel, gasoline, CNG, propane and bio-blends. They are typically used to ensure optimal pressure across the injectors. The 80HP and 3PP8 series are used for high pressure fuel rail applications or for gaseous tank pressure.

Transmission Fluid Sensing

An 80HP & 3PP8 series are also used to monitor transmission fluid pressure, ensuring proper gear selection and maximum fuel economy. Some transmission designs use multiple pressure sensors for more intelligent control.

Suspension Pressure Monitoring

The 3PP8 series pressure sensor monitors hydraulic pressure to help stability systems compensate for vibration or uneven ground and measure load distribution that can affect stability and safety. Pneumatic systems tend to use the 60CP or 70CP series.

Pump Sprayers & Irrigation Systems

Pressure sensors are becoming more and more prevalent in controlling flow and pump efficiency. The 60CP, 70CP and 2CH series offer compatibility and immunity to electrical spikes from variable speed drives and grounding problems.

Sensata Technologies is a leading designer and manufacturer of sensors and controls for leaders in the global automotive, appliance, aircraft, industrial and HVAC markets. Our sensing and protection solutions improve safety, comfort and efficiency for millions of people every day.

Product specs available here: <http://www.sensata.com> or phone 1-888-438-2214

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