case study

True time stamp. Rugged hour meter tracks engine running time with quartz plus technology.

An engine dashboard serves as the “face” of engine operations, much like a dashboard in a car. So it’s critical that the dashboard provides an accurate reading of engine performance. Without it, optimal engine operation is virtually a guessing game — especially when it comes to planning for service and maintenance.

Honeywell

Planning for Service and Maintenance

For one of Europe's leading dashboard manufacturers, these are the basic rules of its business. The manufacturer develops and designs engine dashboards for a variety of equipment and vehicles used for rugged operations, including tractors, backhoes, and industrial equipment. These dashboards require components that can withstand harsh environmental factors, including dust, dirt, extreme temperatures, and intense, frequent vibration. A critical component of a dashboard is the hour meter. Similar to how an odometer tracks mileage, an hour meter monitors elapsed engine operations. It acts as an elapsed time measurement device to determine maintenance work, track service intervals, determine resale value, and measure performance against warranty.

When the manufacturer ran into difficulties with an unreliable hour meter it needed to act fast and intelligently. The manufacturer's old hour meter often failed to perform under harsh environmental conditions and was unable to provide accurate runtime measurements. This heightened the potential for engine failure and potentially contributed to warranty issues. To remedy this problem, the manufacturer chose to replace its unreliable equipment with the Honeywell Hobbs Quartz Plus Hour Meter.

"We provide instrumentation to keep users tuned in to how their equipment is operating, so any sort of interruption to that process is extremely detrimental for our customers," the manufacturer said. "When our customers experienced hour meter failures, we needed a reliable replacement applicable to many engines, including those used in high cost-of-failure operations. The Honeywell hour meter fit the bill."

The Honeywell hour meter offered the manufacturer an enhanced level of reliability and durability. The meter is completely sealed from dirt and moisture, and its design makes it ideal for demanding equipment that requires careful time monitoring and measurement to ensure adequate engine performance. The hour meter is also equipped to measure as many as 10,000 engine hours, and can withstand temperatures ranging from as low as -40 °C to 85 °C [-40 °F to 185 °F].

"The Honeywell hour meter met our need for a more reliable product, thanks to its rugged design," the manufacturer said. "This, in turn, helps us ensure reliable and optimal engine performance for our customers."

For more information about sensing and control products, visit www.honeywell.com/sensing or call +1-815-235-6847 Email inquiries to info.sc@honeywell.com

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