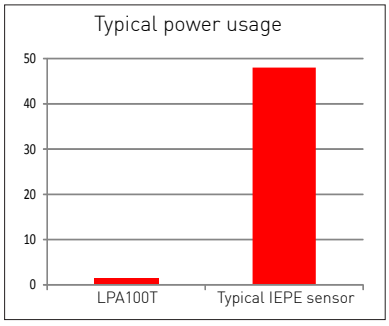
Meggitt Sensing Systems

# Low-power, low-voltage sensor

Wilcoxon Research® LPA100T

## Low-power technology

The heart of the LPA100T accelerometer incorporates new technology and innovative designs. Breaking from conventional IEPE power, the LPA100T operates from low-voltage power over the 3 to 5 volt range and consumes less than 300 µWatts (at 3 volts); which compares to traditional IEPE sensors that typically operate at 48 mWatts. In battery-operated sensors, the LPA100T offers an ideal solution to extend battery life and sensor capability, especially valuable in wireless applications.




## Fast settling time

In addition to low power consumption, the new patent-pending circuitry minimizes sensor settling time to less than ten milliseconds while still preserving the low frequency response; comparing to traditional IEPE sensors which can require up to 3 seconds for measurement settlement time. In multiplexed applications such as online monitoring systems, this sensor permits faster scans of the entire sensor field and thus data for each machine will be refreshed more frequently, resulting in improved protection and analysis.

## LPA100T benefits

The portability of the LPA100T also makes it ideal for walkaround monitoring. Advanced design and manufacturing ensures usability in extreme industrial environments which often include water exposure, high temperatures, EMI/RFI, and hazardous areas.

## Key features

- Ultra low power consumption 300 µW
- Built-in temperature sensor
- Operates down to 3V
- Fast BOV settling time of ‹10 ms
- Comes with the industry popular M12 connector
- Hermetically sealed
- ESD-protected
- Reverse wiring protection
- Hazardous area certification available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smart engineering for
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