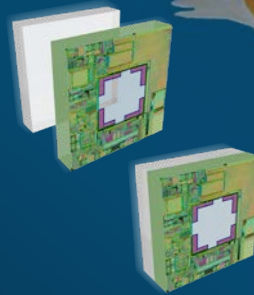


MLX90820

ABSOLUTE PRESSURE SENSOR

MEASURING  
MID-PRESSURES



The small sized butterfly fish can detect subtle changes in water pressure through a lateral line system. Their pressure sensing organs help to avoid collisions, participate in schooling behavior, orient to water currents, elude predators, and detect prey.

## FULLY INTEGRATED ABSOLUTE PRESSURE SENSOR FOR OIL-FILLED CUSTOMER MODULE DESIGNS

### MLX90820

Compact, robust MEMS solution with accurate sensor functionality, fully integrated signal processing, analog or SENT outputs, the MLX90820 offers an innovative approach to measure mid pressures typically encountered in applications where pressure of fluids should be monitored.

### KEY FEATURES

- ✓ Compact fully integrated absolute pressure sensor bare die solution
  - Sensor and interface in one die
- ✓ Solution easy to integrate at customer
  - Glass pedestal to facilitate the die assembly
  - Ideal solution for oil-filled applications and HVAC applications with ranges from 10 to 50bar
- ✓ Robust solution
  - Protected against oil charges
  - High EMC performance thanks to monolithic sensor and interface integration
  - Automotive temperature range -40°C to 150°C

### ✓ Flexible solution

- High accuracy with flexible calibration algorithm
- Device fully programmable through the application pins
- Analog or SENT outputs with diagnostics capabilities



Application example

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