

Early detection with real-time monitoring



Next-generation pressure and temperature monitoring

The piezoresistive M6 miniature absolute pressure sensors in Kistler's 4080B family are suitable for universal use. They are designed to cope with harsh ambient conditions in motor racing as well as demanding requirements on the test bench.

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Kistler's 4080B family



Today's racing cars are so complex that the engines as well as the chassis are pushed to their limits. Installed in the minimum of space, the 4080B family gives you efficient support with key activities such as early problem detection, system design optimization and real-time monitoring of conditions that are critical for operation.

Sensors in the 4080B family (Type 4080B and Type 4080BT) feature integrated high-precision signal conditioning and a very wide compensated temperature range. Thanks to their totally media-separated measuring element, the sensors can operate reliably with maximum measuring accuracy and signal quality.

Enhanced electromagnetic compatibility ensures reliable operation and measurement quality even in environments with electrical or electromagnetic effects – criteria that are gaining importance in view of the trend towards electrification.

Key features at a glance

- Rugged design
- High-precision measurement technology
- Excellent temperature stability
- Simultaneous measurements of pressure and temperature (Type 4080BT)
- Integrated signal conditioning
- Media-separated measuring element

Your benefits

- Real-time system monitoring
- Quickly ready to measure
- Optimized vehicle integration with minimal space requirements
- Flexible connection to a data acquisition system (Type 4080BT)
- FIA-homologated

Which sensor is right for my application?

The smaller Type 4080BT with its integrated PT1000 temperature probe is temperature-compensated up to 150 °C; Type 4080B supports a wider pressure range, also with a temperature compensation up to 150 °C.

With their M6 media connection, compact design and low weight (Type 4080B: 13,5 g, Type 4080BT: 12 g), these sensors meet the demanding requirements for today's on-board sensor technology. The design of Type 4080BT is exceptionally short, making it ideal for challenging applications in very confined spaces.

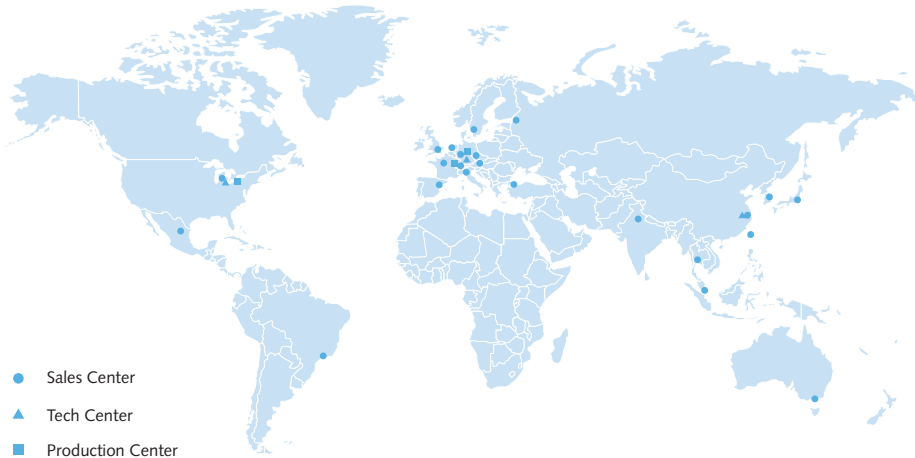
Integrated signal conditioning enables the Type 4080BT to supply voltage output signals for the pressure module and the temperature probe. This makes it suitable for universal use and ensures maximum flexibility for connection to a data acquisition system.

Pressure ranges of 5, 10, 20, 130 and 250 bar make the Type 4080B ideal for use in power steering, hydraulic and braking systems. Type 4080BT, which supports 5, 10 and 20 bar, can be used in hydraulic, cooling water or oil circuits – to mention only a few examples.

Variants of these FIA homologated sensors are available with a LEMO plug connector or a flylead cable, ready for immediate use.



About us



Take advantage of our next-generation pressure and temperature monitoring equipment for reliable early detection and real-time monitoring. Visit our website: www.kistler.com/engine-motorsport to learn more about how our measurement solutions can assist you in your day-to-day work.

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