

Hardware at-a-Glance:

# Pressure Sensor



Pressure Sensing is one of the many capabilities seamlessly integrated into KCF's Comprehensive Machine Health Monitoring Platform.



**Gain the ability to see real time pressure data**, right alongside vibration and temperature data in one easy-to-use platform. This capability within the product family unlocks the ability to detect and proactively correct problems such as clogged filters, air/gas leaks, improper configuration, among others, all through a single vendor, eliminating costly time-based maintenance protocols.

**KCF offers both Differential and Absolute pressure sensors**, each with their own unique use cases.

*To develop the best configuration for your application, work with your KCF representative.*

**Differential Pressure Sensors:** Used to measure the difference in pressure between two points in a system at a very precise level. They are best suited for systems where measurements of small pressure differences are needed.

- Filter clogging
- Air/gas leaks
- Dampers/valves friction losses
- Fan/pump efficiency

**Absolute Pressure Sensors:** Measure the pressure at a single point in a system, and are available in a wide range of sensitivities for various systems. Issues that can be diagnosed using Absolute Pressure sensors include:

- Pump cavitation
- Pump efficiency
- Impeller
- Filter/screen clogging
- Compressed air/gas leaks
- Valves/heat exchangers friction losses



**Pressure Sensors require a KCF Technologies IoT HUB and analog adapter for use.**

**The SMARTdiagnostics IOT HUB** is the next generation of full asset health solutions designed to handle the most complex asset monitoring needs. **Including:** triggered collections, multi-functional sensor ports, and the ability to withstand higher temperatures with external power sourcing, with optional wired power solution.



Water Treatment Plant, PA