

## QUICK CONNECTORS WITH SENSORS



Our “connectors and mechatronics” department is able to offer several quick connector ranges for all fluid transfer systems (engine cooling and thermal management, fuel, turbocharged air intake, blow-by, SCR, air conditioning). Some of these quick connectors are designed for specific features with integrated pressure and temperature sensors or even heating components or cookies in line with the OBD II Regulations. Our temperature sensors are deployed on cooling systems, while our combined pressure and temperature sensors are used for fuel systems.

- Products Family: **Quick connectors**

## TECHNICAL FEATURES

- Two levels of integration for embedded sensors with the quick connectors range.
  - Commercially available sensors.
  - Direct integration of sensitive components within our parts for market-leading compact design.
- Temperature sensors
  - Lead NTC with epoxy resin coating.

- PA66GF30.
- Operating at temperatures from -40°C to 100°C (peaks at 125°C).
- Maximum operating pressure of 3 bars.
- Response time of less than 5 seconds.
- IP69k certified.
- Combined pressure and temperature sensors
  - Operating at temperatures from -40°C to 125°C.
  - Operating pressure of 1 to 11 bars.
  - Response time of less than 10 milliseconds.

## **BENEFITS**

- Compactness
- Cost-Effective
- Customizable
- Integrated System

## **MARKET AND EXPERTISE**



AUTOMOTIVE & TRUCKS



Fluid Management Systems

## **ALL PRODUCTS FAMILIES**

# **All Products Families for Automotive Fluid Management Systems**



## **Air Conditioning**

Hutchinson offers a wide range of veneer, barrier or all-rubber hoses approved by all the global manufacturers. These hoses are assembled with crimping on aluminum or steel tubes, integrating our own-design high-performance IHX units in line with requirements. As vibro-acoustic specialists, we also offer innovative noise reduction systems.



## **Air Hose**

Our products operate across a wide temperature range and combine outstanding flexibility with very high thermal and chemical resistance. They include quick connectors and noise reduction devices. The textile-reinforced elastomer connectors are obtained through extrusion, wrapping or molding.



## **Depollution lines**

From pressure gauges for particulate filters to blow-by gas removal or even SCR systems...our solutions benefit from compact designs. For blow-by and SCR, our mechatronics department is also developing lines to deliver optimum heating power aligned with each customer's needs.



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