

## HYDRAULICS AND PNEUMATICS

### Background

Pneumatic technology is used in vehicle tires, air brakes of buses, trucks or trains, compressed-air engines, vacuum pumps and more. Hydraulic systems are used in vehicle braking systems, power steering systems, shock absorbers, material handling vehicles such as excavators and aerial work platforms, and more. Making sure the right gas or liquid pressure is administered to these systems is crucial, especially when we speak about hydraulics, where the liquid in the system

may be flammable. If the pressure or the temperature range are not correct, this can cause dangerous leaks and accidents.

*Pressure sensors maintain a constant output pressure of the gas or liquid, in order to avoid any leaks that could cause dangerous accidents.*

### Solution







Pressure sensors are used for pressure regulators, which match the demand for gas or liquid to the demands of the system, while maintaining a constant output pressure. Float switches make sure to keep the liquid level at an optimum level.

Position Sensors are used to monitor valves and actuators; "dual sensors" substantially reduce mounting and maintenance efforts through the combination of two sensors in one housing. Position sensors are available with terminals or cable connection, analog or IO-Link interface



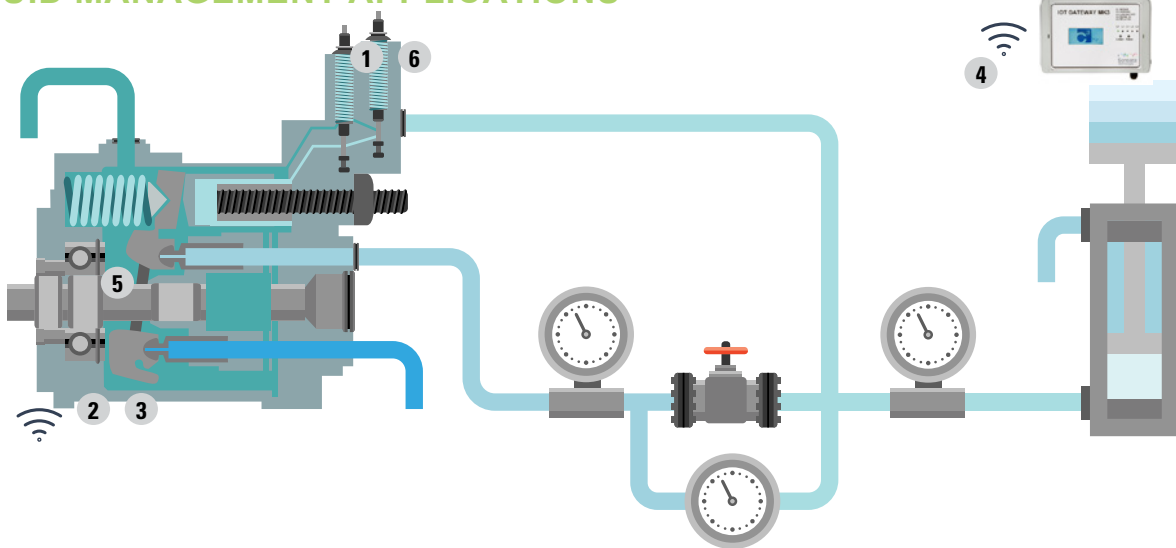


## RECOMMENDED PRODUCTS

Reference on Diagram	Product	Features	Function
1	 <b>2CP5 Series</b>	<ul style="list-style-type: none"> <li>UL recognized ceramic capacitive sensor, overvoltage and short circuit protected; Durable, compact, low-cost design</li> </ul>	It measures the air pressure in the pneumatic system
2	 <b>PTE7100 PTE7300 Series</b>	<ul style="list-style-type: none"> <li>Ideal for mid and high pressure ranges</li> <li>Wide range of ports, connectors, and analog electrical outputs for ease of integration in various industrial applications</li> </ul>	Hydraulic and pneumatic system control
3	 <b>Wireless Pressure Transmitters</b>	<ul style="list-style-type: none"> <li>Pressure ranges from 0-50 mbar up to 0-400 bar; the sensors have a battery life of over 5 years with a 10s transmission rate</li> </ul>	Wireless system control
4	 <b>Industrial Receivers</b>	<ul style="list-style-type: none"> <li>Single channel or multiple channel units, which receive readings from up to 5 wireless transmitters</li> </ul>	Can act as an alarm if the signal from a wireless transmitter is lost.
5	 <b>Hall Effect Rotary Position Sensor, IO-Link</b>	<ul style="list-style-type: none"> <li>Two-part design, modular, offering maximum flexibility during installation; IO-Link with COM3 transmission rate</li> </ul>	Permit to monitor valve opening
6	 <b>Industrial Pressure Transmitters</b>	<ul style="list-style-type: none"> <li>Excellent media compatibility, very stable electronics especially in high vibration and shock applications</li> </ul>	Monitor the air pressure supply to power pneumatic controls.



## FLUID MANAGEMENT APPLICATIONS



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