

WIRELESS CONTROL SYSTEM

...Resilience, Productivity and Sustainability



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MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP
CYLINDER

STOP
CYLINDER

TPSR

TPSRS

TPNS

TPHT

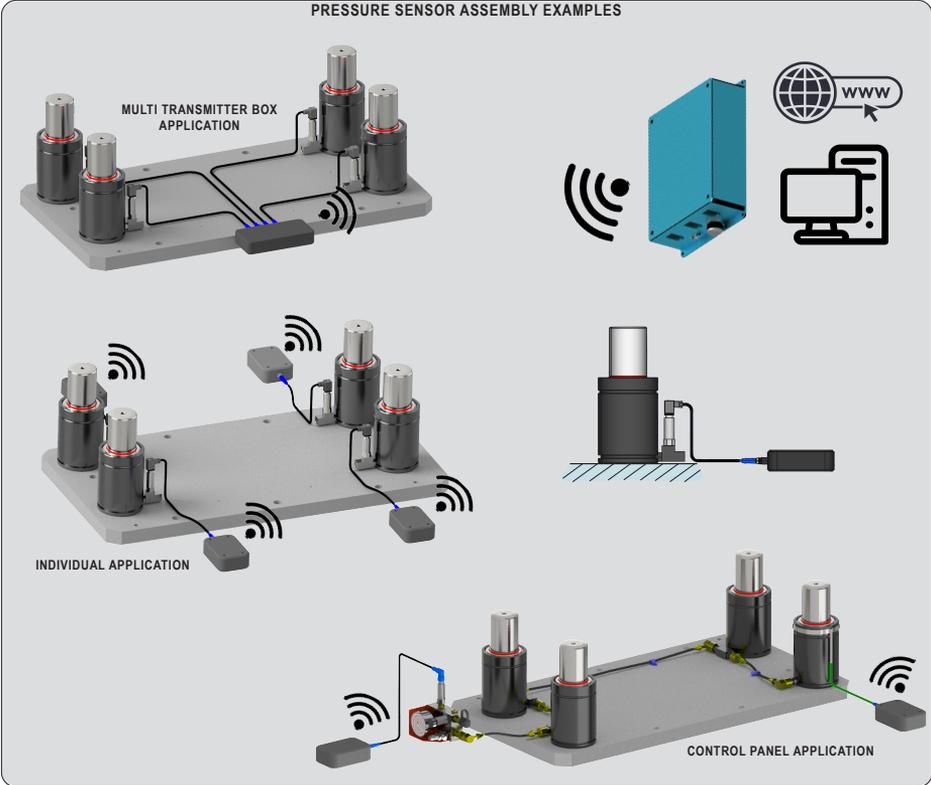


Companies and all kind of organisations are making increasing use of the equipment needed to take accurate measurements. They do this to measure pressure valves or monitor the temperature of products during stamping process.

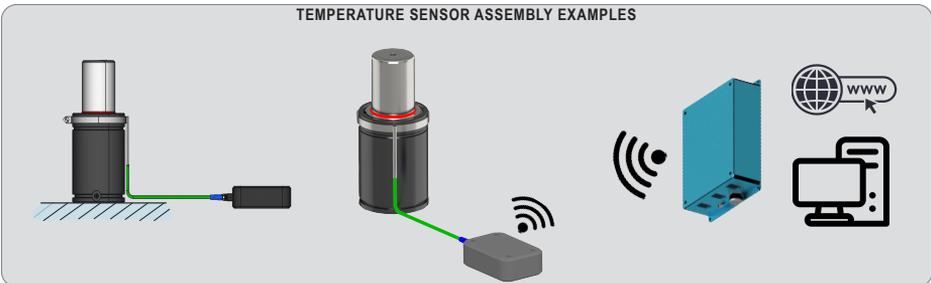
There are plenty of situations where there is a need of reliable data. The Tecapres® Wireles Control System helps to safeguard quality and ensure safety, to get a better grip on the situation and to become more efficient. Measurements data has value. The Tecapres® Wireles Control System-Platform helps you to achieve this.

The Tecapres® Wireles Control System is an open system, wich mean various different interfaces can be connected to it. Would you like to make use of your own sensors or would you like to develop your own user application? Both are possible with the platform.

PRESSURE SENSOR ASSEMBLY EXAMPLES



TEMPERATURE SENSOR ASSEMBLY EXAMPLES



WIRELESS BASE STATION TPWB-1

The Wireless Value Base Station TPWB-1 collects data from all paired sensors. The received data can be read with MODBUS over TCP/IP. Configuration is carried out with SensorGraph.


TECHNICAL INFORMATION

Operating Temp.	0 °C to +60°C
Power	8 V - 30 V DC
Wireless Range	1.000 meter (free line of sight)
Protection Class	IP 40
Dimensions	180(l) x 130(b) x 66(h) mm excluding antenna
Interface	Ethernet (MODBUS over IP)
Max. Network Size	100 Sensors
Antenna	External
Configuration	Wireless Value Online Portal / SensorGraph
Buffer	Build in SD card
Ethernet	Auto-detect 10/100 mbps, RJ45
Endpoint	MODBUS network, computer with SensorGraph
Network Settings	Configurable with SensorGraph
Alarm Relais	1A 30 V

WIRELESS MODULE TPWT-1

The Wireless Value TPWT-1 measures process signals and transmits data to the base station. Sensing is performed using any available sensor with 0-25 mA output. This allows connection of numerous commercially available sensors to monitor a wide variety of measurement parameters such as flow, level, pressure etc.


TECHNICAL INFORMATION

Range	0 - 25 mA
Accuracy	+/- 0.25 % of range
Resolution	10 µA
Input Impedance	43.2 Ohm
Overload Protection	+100mA, reverse polarity protected
Measurement Interval	Configurable between 1sec - 255min
Operating limits	-20°C to +80°C
Power	AA 3.6 V lithium battery or mains power supply
Memory	10.000 measurements
Range	1.000 m with free line of sight
Protection Class	IP 65
Dimensions	105(l) x 70 (w) x 34 (h) mm



PRESSURE SENSOR TPPS-1

The pressure transmitters TPPS-1 have no internal seal and a high insulation voltage of 300 VDC, and are extremely resistant to environmental influences. The sophisticated compensation circuit makes it possible to specify a narrow total error band.

- Compensated over the entire temperature range
- Compact Design for space-critical applications
- Robust stainless steel housing
- High Long term stability



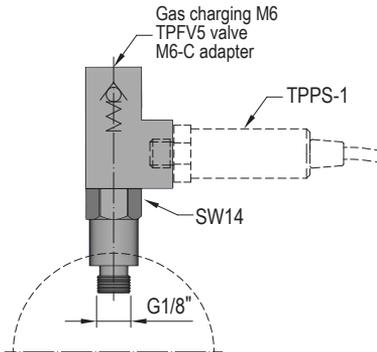
TECHNICAL INFORMATION

Analog Interface	4-20 mA
Power	8-28 V
Conexion	1/8" Gas-Male
Materials in contact with media	Stainless Steel AISI 316L
Connector	M12-H.4p / 2m Cable. Pvc Ø 5mm
Media Temperature	125 °C
Protection Class	IP65
Pressure Range	0 - 600bar

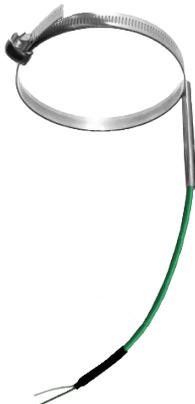


Mating plug to M12, angled to 90° socket, 2 meters cable.

RACORD TPCR-1



TEMPERATURE SENSOR TPTS-1



TECHNICAL INFORMATION

Operating Temp.	-196 °C to + 350°C
Materials in contact with media	Stainless Steel AISI 304
Dimensions	Ø 30 - 500 mm
Sensor	Pt-100
Electric connexion	Polarized Connector

Thermocouple or resistance thermometer sensor TPTS-1 for temperature measurement in cylinders of any size.

Adjusting the clamp to the cylinder is made in situ using an adjustment screw. Complete stainless steel manufacturing.

With the Tecapres® Wireles Control System the user has two options when it comes to presentation, logging, alarming etc. He can select a local PC version called SensorGraph or a web based application called WebSensys.

The Tecapres® Wireles Control System wireless technology enables users to immediately view all measurement results in a clear dashboard system.

SensorGraph is a PC based application and is meant for single-site monitoring. In general most of the applications will work with a system containing one base station together with a number of sensors. However, it is possible to connect more base stations within one application.

WebSensys is a web-based multi-site application. Via authorization levels it is possible to allocate the data to different user profiles. This means you can access the database by a number of persons and allows them to see whatever is relevant for their position.

