



- Range -1 to 600 bar (-14.7 to 8500 psi)
- Pressure Accuracy of 1.0-2.2% FS TEB
- Seven years replaceable D-cell batteries
- Cutting-edge user-friendly Mobile or Web App

# PRESSURE SENSOR PRMAP-PAN

## Features

- Rugged Stainless Steel Construction of the sensor head
- Displays real-time instrument status and data

## Applications

- General industrial process control
- Factory automation/industrial equipment
- Pump/Compressor systems

The **PRMAP-PRES** is a high precision, temperature compensated pressure sensor with good long-term stability. The transducer includes a flush diaphragm and works following the piezoresistive principle. Featuring a body machined from a single piece of stainless steel and a transducer constructed with an Al<sub>2</sub>O<sub>3</sub> ceramic base, the PRMAP-PRES sensor is suitable for nearly all aggressive media. Pressure and temperature calibration is done electronically with the on-board ASIC.

## Specifications

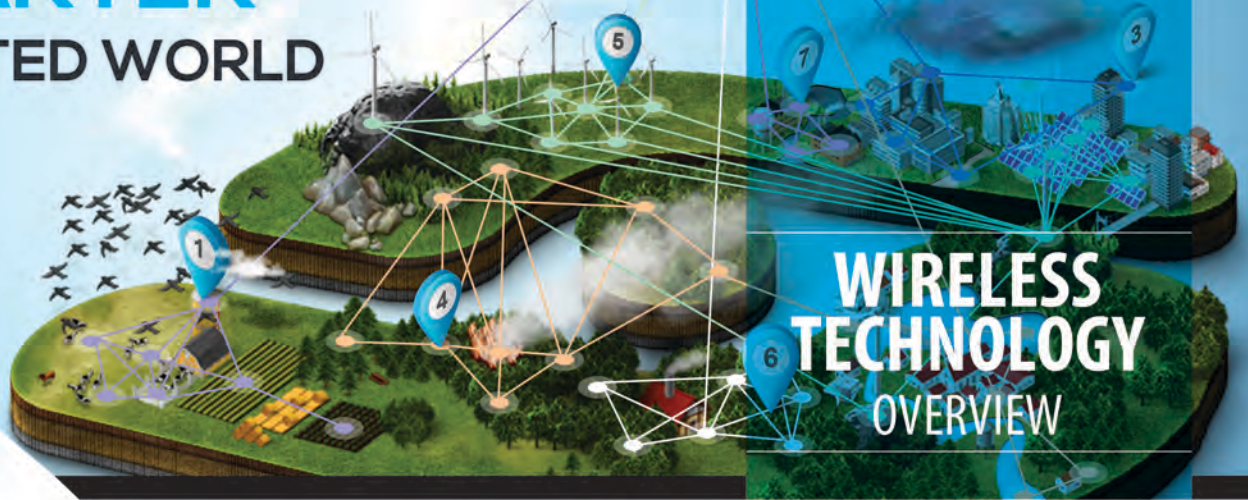
Sensor type	Absolute (A), gauge (R) or sealed gauge (S)					
Technology	Piezoresistive with electronic signal conditioning					
Operating temp.	°C	-25 ... +125				
Storage temp.	°C	-40 ... +135				
Wireless technology	Spidermesh					
Battery life	Up to 7 years on 3x D-cell primary batteries					
Material	304SS body, Al <sub>2</sub> O <sub>3</sub> membrane					

## Pressure ranges

Nominal pressure	bar	-1 ... 0	-1 ... 5	0 ... 16	0 ... 50	Other call
	psi	-14.7 ... 0	-14.7 ... 100	0 ... 300	0 ... 1000	
Accuracy [%FS]						
@ 25°C		1.5			1.0	
-25 ... +125°C		2.2		2.0	2.2	



# CREATING A SMARTER CONNECTED WORLD



## WIRELESS TECHNOLOGY OVERVIEW

## THE TECHNOLOGY

Smartrek delivers a powerful, modular, easy to program sensor platform for the Internet of Things, using a true cooperative meshed network technology. which stands out for long range and low energy consumption applications. The technology is perfectly adapted to all sensor deployments, even in typically harsh wireless conditions.

## APPLICATIONS

- 1 Agriculture
- 2 Meterology and Environmental Quality
- 3 Home Automation and Security
- 4 Environment
- 5 Energy
- 6 Harsh, Forested and Mountainous Terrain Monitoring
- 7 Industrial Monitoring and Automation
- 8 Military



### AUTONOMOUS

With Spidermesh technology, each individual (node) in the network communicates with all of its neighbors within reach, therefore creating a completely independent network that does not rely on other services such as Wi-Fi, internet or cellular.



### EXTENDED AUTONOMY

Communication between Spidermesh nodes is synchronized. Each individual within the network transmits data according to a schedule optimized for data packet collision mitigation, which ensures that the majority of attempts at transmitting data reach their target destination without needing re-tries, therefore saving energy/battery life when compared to standard wireless networks.



### SELF-HEALING

Spidermesh is a meshed technology in which each node cooperates in repeating data packets network-wide, therefore conferring increased reliability in long-range and/or high-density deployments, as well as and increased resistance to multipath fading.



## CONTACT US



+1 (581) 701-3075



462 rue Labrecque  
St-Honore-de-Shenley, Qc, Canada



service@smartrektechnologies.com