



Wireless sensor for differential pressure

The Wireless Value DLPa measures the pressure difference between two points as a comparative value. Two ports are used to measure pressure difference using the hot wire principle. Due to the high sensitivity of the sensor the sensor is ideal for use in laboratory settings, e.g. cleanrooms and biological research.

Overview

- Accurate and wireless sensing
- Battery life >5 years
- Compatible with all WiSensys Base Stations
- 1.000 metre range (line of sight)

Applications

- Clinical laboratories
- Hospitals
- Cleanrooms

Specifications

- Ability to buffer 10,000 measurements
- Programmable measuring interval
- Wall-mountable
- Easy to add sensors to operational system
- User-replaceable battery
- Unique network ID to avoid interference with other wireless systems

Sensor values are sent by the paired Base Station to:

- WebSensys (LAN or mobile carrier)
- WebSensys (On premises)
- MODBUS network (IP or serial)
- SensorGraph via serial interface or LAN RS485/422

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Technical specifications

Design	Wireless module
Type	Differential pressure
Sensor type	Internal
Measurement range	
Range	500 – 500 Pa, -20° C - +80° C
Measurement accuracy	
Differential pressure accuracy	Zero point: 0,1 Pa
Span accuracy	0,3 % of measurement
Temperature accuracy	-10° C - +60° C: 2° C, -20° C - +80° C: 3° C
Measurement resolution	0,1 Pa
Drift	<0,05 Pa/year
Measurement interval (M)	From 1 second and up, configurable. Default 2 minutes
Samples per transmission (T)	From 1 and up, configurable up to 5. Default 1
Operating temperature	-20 °C to +80 °C
Power	1 AA 3,6 V Lithium battery
Battery life	>5 years with default for (M)
Memory	10.000 measurements
Radio standard	EN 300 220
Frequency	868 - 870MHz (915MHz where applicable)
Range	1.000 m with free line of sight
Housing	IP65
Color	RAL7035
Dimensions	110(w) x 100 (h) x 55 (d)
Weight	250 g (Including battery)
Configuration	WebSensys or SensorGraph
Regulatory	R&TTE, CE
Ordering options	
Housing options	No
External antenna	Yes
Pressure relief valve	Yes
External power supply	No

