WAPS-501 PRESSURE SENSOR

WISE AIR 4.0®

MEASURE TO MANAGE

2025

Smart Measurement Solutions for Compressed Air and Gases

WISEAIR TECHNOLOGIES INDIA LLP

www.wiseair.in

About Us

Our Vision At WiseAir Technologies is to Offer Our Customers With Innovative and Advanced Measurement Solutions for Compressed Air and Gases at Affordable Costs. With Over 22 Years Experience in The Field of Compressed Air Management, We Have Developed Products that are More Accurate, Smart, Reliable, State-Of-The-Art and Easy to Use. We Aim to Transform The Traditional Manufacturing and Industrial Practices With Our Latest Smart Technologies. Hence We Primarily Focus On Offering Products Which Use Large-Scale Machine To Machine Communication (M2M) and Industrial Internet of Things (IIoT) To Provide Increased Automation, Improved Communication, Self Monitoring To Analyze and Diagnose Issues Without The Need For Human Intervention. Our “WA“ Range of Smart IIOT Sensors, Can Be Easily Networked Together With Manufacturing And Energy Management Softwares. This Connectivity Allows For Seamless Data Collection, Exchange and Analysis To Potentially Facilitate Improvements In Productivity And Efficiency Resulting In Huge Economic Benefits.

Our Network

Our Smart Sensors are Developed with Design and Technology Support from Our Partners Across North America, Europe and Asia. With Our Strong Network of Partners, we offer Seamless and Best-in-Class Service to Our Customers.

Artificial Intelligence & Machine Learning Software

Our software are programmed to analysis and self Diagnose the Measured Datas

Smart IIOT Sensors

For measurement of Flow, Power, Dew Point and Pressure

Product Experts

Product Specialists with Decades of Experience in Compressed Air Measurement and Management

INTRODUCING THE WAPS-501 PRESSURE SENSOR

A Pressure Profile is an excellent tool to analyze and understand the functioning of the compressed air system. In many cases, the pressure profile will provide the data needed to identify what is causing the perceived low pressure problem at the end use and to implement an inexpensive solution.

Use the pressure profile measurements to develop a graph of the entire compressed air system at a particular time during the production day. The graph begins with the pressure at the compressor discharge and ends with the demand side components at the point of use. The "point of use" is defined as the final connection at which the compressed air is applied to the device or tool.

A Pressure Sensor May Reveal if a Small Branch Pipe or Other Connecting Components Is Causing Momentary Pressure Drops That Affect Production.

Key Features

- 0.5 % Accuracy
- Two Outputs: 4..20 mA | Modbus
- Easy to install and wire
- Stainless Steel Casing

Benefits of Pressure Sensor

- Improve reliability and scheduled maintenance.
- Protect key assets and critical equipment such as Compressors, Pumps, Conveyors, Motors, Fans, Cooling towers and other key production machinery.
- Avoid financial losses from down time and critical equipment failures.
- Plan maintenance in advance and prevent expensive failures.
- Monitor the condition and deterioration of rotating equipment and bearings.

Applications

- Process Industries – Monitors and controls pressure in manufacturing processes.
- Oil & Gas – Ensures accurate pressure readings in pipelines and storage facilities.
- Water Treatment Plants – Tracks pressure in filtration and distribution systems.
- Pharmaceutical Industry – Ensures precise pressure control for critical applications.
- Food & Beverage – Monitors pressure in storage tanks and processing lines.
- Hydraulic Systems – Measures pressure for efficient operation of hydraulic equipment.
- Power Generation – Supports pressure monitoring in turbines and boilers.

Ordering Code

- **WAPS - 501 A**

  Pressure Sensor Measuring Range 0..16 Bar, With Modbus Output, G 1/2" Process Connection

- **WAPS - 501 B**

  Pressure Sensor Measuring Range 0..40 Bar, With Modbus Output, G 1/2" Process Connection

- **WAPS - 502 A**

  Pressure Sensor Measuring Range 0..16 Bar, With 4..20 mA Output, G 1/2" Process Connection

- **WAPS - 502 B**

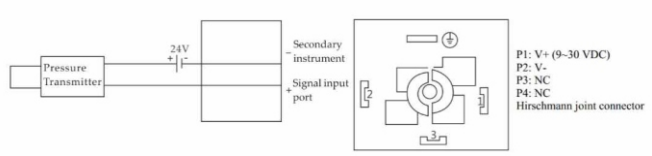
  Pressure Sensor Measuring Range 0..40 Bar, With 4..20 mA Output, G 1/2" Process Connection

Technical Data Sheet

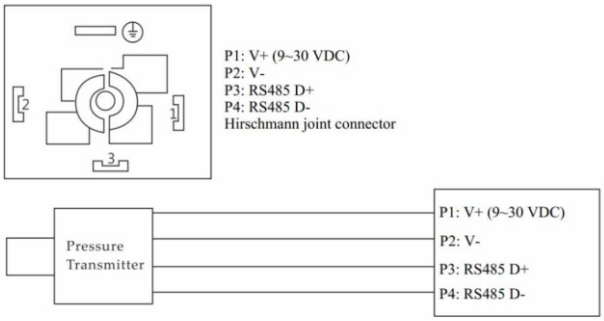
	WAPS 501
Accuracy	± 0.5 %
Measuring Range	0 - 16 Bar / 0 - 40 Bar
Output	4..20 mA, Modbus RTU Analogue Output Signal - Pressure
Input	9 - 30V
Technology	Ceramic Core, Resistant to Moisture
Process Connection	ISO G 1/2" Thread
Casing	Stainless Steel
Ambient Temperature	-20ºC to + 80ºC
Standards	According to IEC 61326-1
Calibration Requirement	Every 2 Years

Applications

- **Analogue :**



- **Modbus :**



For More Info
SCAN HERE

UNDERSTAND COMPRESSED AIR SYSTEM DYNAMIC WITH OUR ADVANCED MEASUREMENT SOLUTIONS

MEASURE – MANAGE – SAVE – SUSTAIN

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