WISE AIT 4.0®

COMPRESSED AIR ENERGY SAVING SOLUTIONS

GENERAL CATALOG

WISE AIT 4.0®

MEASUREMENT SOLUTIONS:

- Compressor Master Controllers
- Smart Flow Sensors
- Dew Point Sensors
- Power Meters
- Real Time Smart Monitoring Software

WiseAir Technologies India LLP
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2020 - Release 1

www.wiseair.eu

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 17 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, SelfMonitoring 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.

Smart IIOT Sensors
For Measurement of Flow, Power, Dew Point and Pressure

Artificial Intelligence and Machine Learning Softwares
Our Softwares Are Programmed to Analyse and Self Diagnose the Measured Datas

Product Experts
Product Specialists With Decades of Experience in Compressed Air Measurement and Management

Simplify Your Compressed Air Management With Our Smart Technology

Compressed Air Systems are Dynamic and Highly In-Efficient. Hence they Require Continuous Monitoring for Sustained Benefits. With Our WiseAir 4.0 Smart Sensors and M2M / AI Softwares Your Compressed Air System is Measured, Analysed and Improved Over Time.

With Our Seamless and Detailed Analytical Reports You Can Keep Track Of Your Compressed Air Systems Efficiency with Minimal Human Intervention.

COMPRESSOR LIFE CYCLE COSTS

Understand The True Costs Of Compressed Air

In a Compressor's Life Cycle More than 80 % of its Operating Costs is Spent Towards its Energy. Hence Monitoring and Managing Compressors at their Peak Energy Efficiency will give Significant Energy Savings.

Our Smart Sensors Can Provide Vital Informations Like Flow, Power, Dew Point and Pressure. When Our Sensors are Networked with Our AI Software Programs, All the Measured Datas are Analysed and Reported To You With Suggested Action Plans in Real Time.

Manage Your Compressed Air System Efficiently and Effortlessly With Our WiseAir Smart Sensors and AI Softwares.

Our Services

We Offer Free Assessment Services to Identify the HotSpots For Improvements and Develop Road Maps for Sustainable Results. Our Product Specialists Can Also Offer You Customised Plans for Monitoring the Key Performance Factors Of Your Compressed Air System.

Get in Touch with Our Product Specialists to Understand How Your Factory Can Start Saving in Energy & Costs With Our Smart Solutions..

Call Us
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WAFS - 103 Differential Pressure Pitot Tube Flow Meter

Specially Designed with Patented Anti Condensation Technology

Key Features :

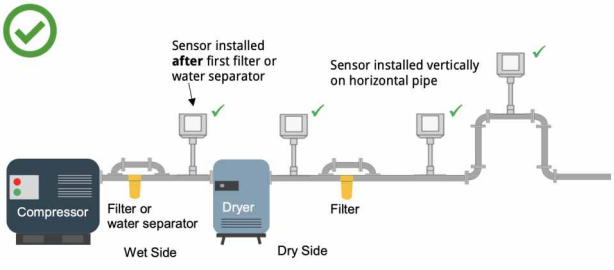
- Suitable for Wet Compressed Air
- Insertion Type With Anti Ejection Design
- Ideal for Compressor FAD Measurement
- Standard Options Include Built in Temperature and Pressure Sensors
- Integrated Display With Touch Functions and Optional Data Logging
- Bluetooth Interface For Easy Configuration
- Supports WiseAir 4.0 Bluetooth Mobile Application (Android Version)

Colour graphic display for online values and sensor settings

Technical data WAFS 103

Measuring Range	
Flow	10..300 Nm/s
Pressure	0 to 16 Bar
Temperature	-40°C to +200°C / -40°C to +392°C
Ambient Temperature	-20°C to + 60°C
Process Medium	Air, Argon, Carbon Dioxide, Helium, Hydrogen, Natural Gas, Nitrogen, Nitrous Oxide, Oxygen
Applications	Wet and Dry Air High Velocities
Accuracy	
Accuracy	Flow: ±(1% reading + 0.3% full scale)
	Pressure : ±0.5% Full Scale
	Temperature : 0.5°C
Outputs	
Signals	Analog (4..20mA (4Wire, Isolated) / Pulse Output
	Digital : RS485 Modbus / RTU
Parameters	Flow, Consumption, Pressure and Temperature
Power Supply	
Input	18 to 30V / 6.5W@24V
Anti Condensate	18 to 30V/ 24W@24V
Power Up EMC	According to IEC 61326-1
Display & Data Logging	
Display	2.8" LCD With Touch Panel
Data Logger	10,000,000 Samples
Other Informations	
Suitable for Pipe Sizes	DN 25 to DN 600
Available Shaft Lengths	250 mm & 400 mm
Electrical Connection	2 x 5 pin, M12, Female
Process Connection	ISO G1/2" Thread
Calibration Frequency	Every 2 Years

Correct Installation



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Measurements

WAFS - 103 Differential Pressure Pitot Tube Flow Meter

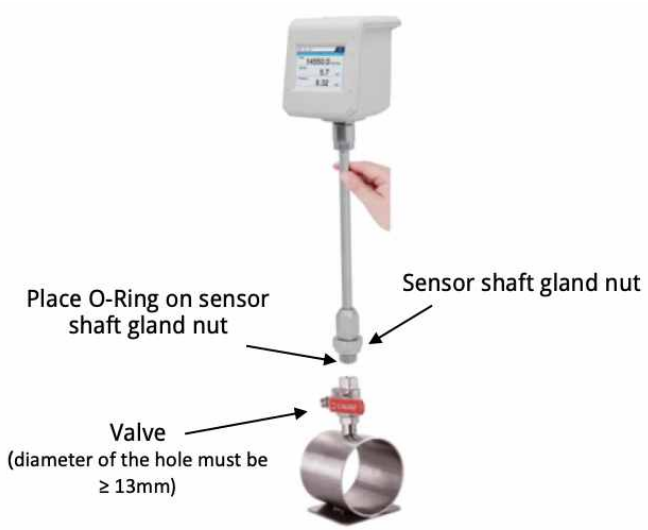
Flow Ranges

Pipe Size			Flow Range (Nm3/h)		Flow Range (cfm)	
Inches	DN	ID (mm)	Min Flow	Max Flow	Min Flow	Max Flow
1	25	25	8.8	530	5.17	311.9
1 ¼	32	32	14.5	868	8.53	510.81
1 ½	40	40	22.6	1357	13.3	798.59
2	50	50	35.3	2120	20.77	1247.62
2 ½	65	65	59.7	3583	35.13	2108.59
3	80	80	90.5	5428	53.25	3194.37
4	100	100	141.4	8482	86.21	4991.65
5	125	125	220.9	13253	129.99	7799.39
6	150	150	318.1	19085	187.2	11231.52
8	200	200	565.5	33929	332.79	19967.22
10	250	250	883.6	53014	519.99	31198.74
12	300	300	1272.3	76340	748.74	44926.09

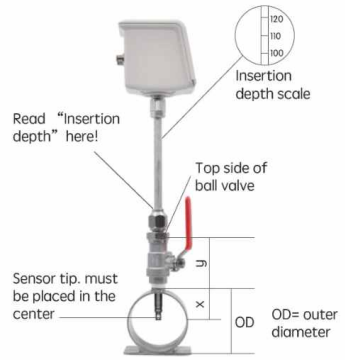
Ordering Codes

WAFS 103	Pitot Tube Flow Sensor 0 (5) ...30 Nm/s with 250 mm Shaft With Modbus / Pulse / 4..20mA Output and Bluetooth Compatibility
WAFS 103 - A	Pitot Tube Flow Sensor 0 (5) ...30 Nm/s with 400 mm Shaft With Modbus / Pulse / 4..20mA Output and Bluetooth Compatibility

Installation Reference - 1



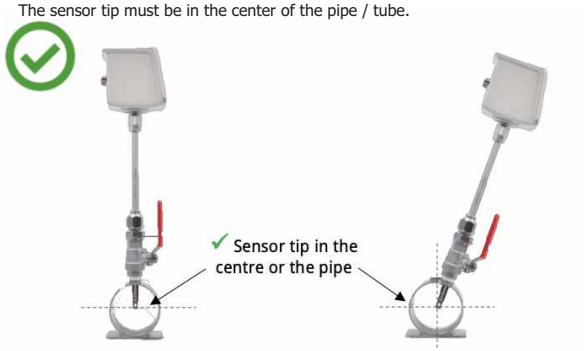
Installation Reference - 2



Installation Reference - 3

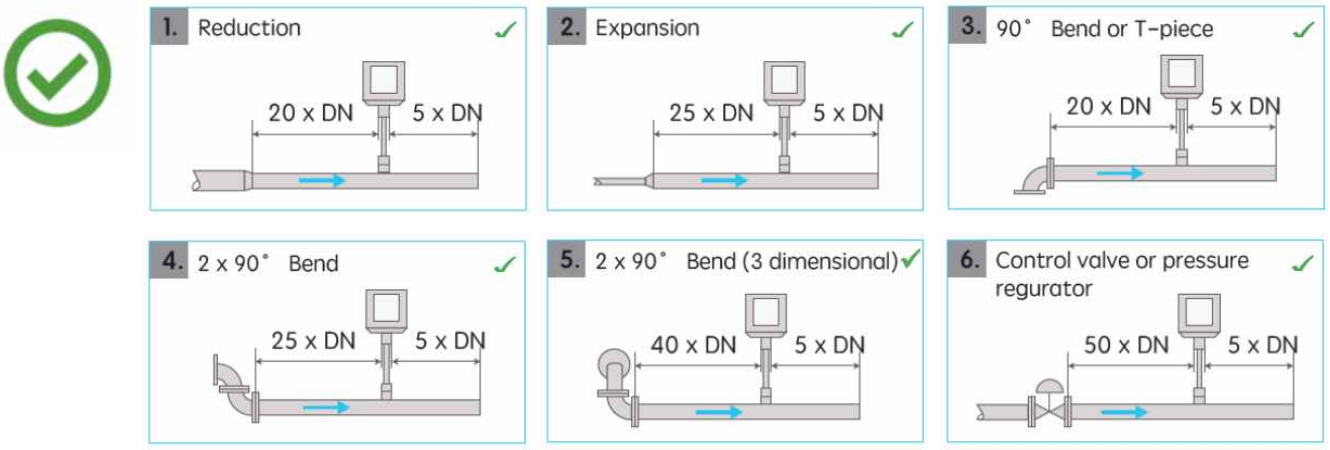
Correct Installation

The sensor tip must be in the center of the pipe / tube.



Correct Installation

DN = Pipe Diameter



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