General Catalogue

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

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.

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.

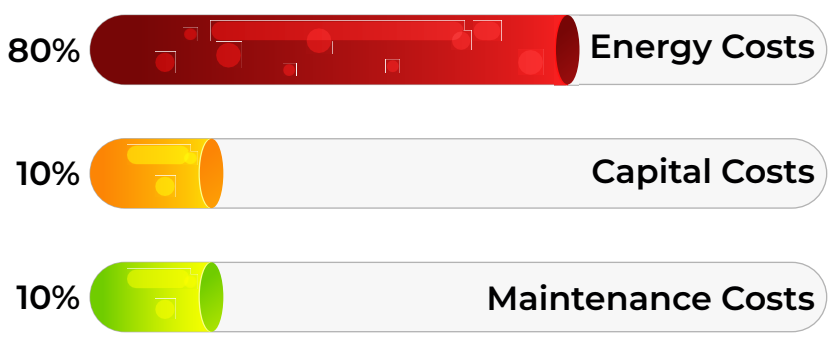
UNDERSTAND THE TRUE COSTS OF COMPRESSED AIR

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



WISE Air 4.0
MEASURE TO MANAGE

Table Of Content

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INTRODUCING THE WAFS-103
DIFFERENTIAL PRESSURE PITOT TUBE FLOW METER

Technical Data Sheet

Measuring Range	
Flow	5 ... 300 Nm/s.
Pressure	0 to 16 Bar
Temperature	-40^0 C to +200^0 C / -40^0 C to +392^0 C
Ambient Temperature	-20^0 C to + 60^0 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 : 0.5^0 C

Outputs	
Signals	Analog (4..20mA (4Wire, Isolated) / Pulse Output Digital : RS485 Modbus / RTU
Parameters	Flow, Consumption, Pressure, Temperature and Velocity

Power Supply	
Input	18 to 30V / 6.5W@24V
Anti Condensate	18 to 30V/ 24W@24V
Power Up EMC	According to IEC 61326-1

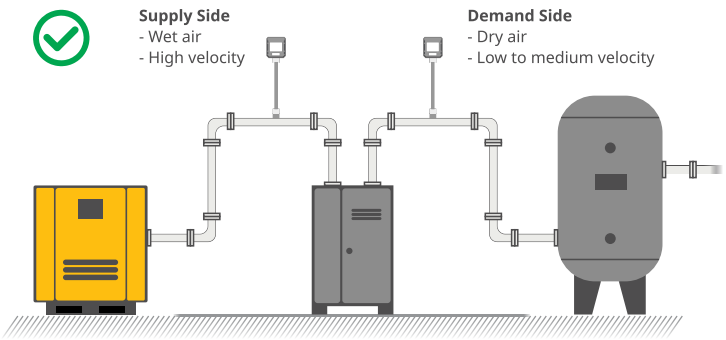
Display & Data Logging	
Display	2.8" LCD With Touch Panel
Data Logger	10,000,000 Samples

Other Informations	
Suitable for Pipe Sizes	DN 25 to DN 300
Available Shaft Length	250 mm & 400 mm
Electrical Connection	2 x 5 pin, M12, Female
Process Connection	ISO G1/2" Thread
Calibration Frequency	Every 2 Years

SPECIALLY DESIGNED WITH PATENTED ANTI CONDENSATION TECHNOLOGY

- 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)

Correct Installation



COLOUR GRAPHIC DISPLAY FOR ONLINE VALUES AND SENSOR SETTING

Flow Range

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 Code

- **WAFS 103 - A**

  Pitot Tube Flow Sensor 0 (5) ...300 Nm/s with 250 mm Shaft With Modbus / Pulse / 4..20mA Output and Bluetooth Compatibility

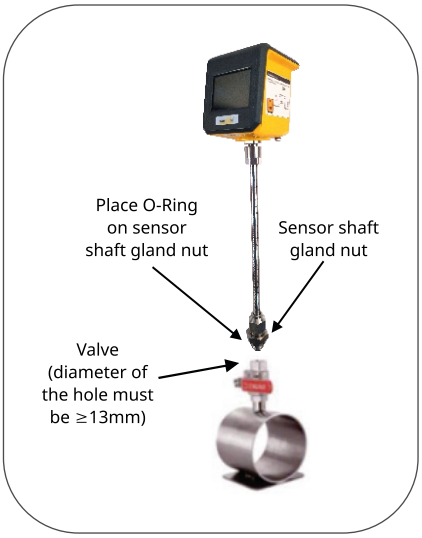
- **WAFS 103 - B**

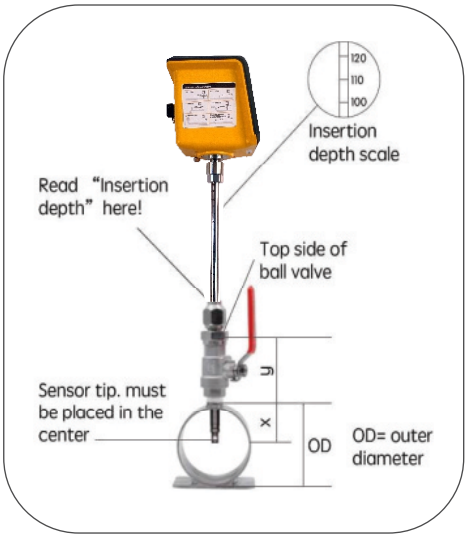
  Pitot Tube Flow Sensor 0 (5) ...300 Nm/s with 400 mm Shaft With Modbus / Pulse / 4..20mA Output and Bluetooth Compatibility

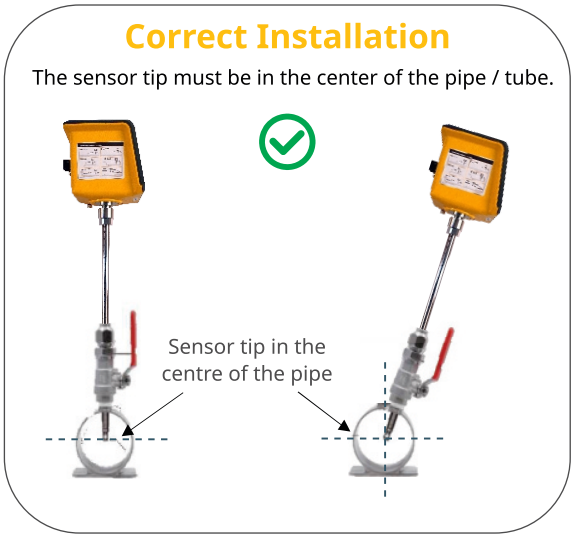
- **WAFS 103 - DB**

  Pitot Tube Flow Sensor, Insertion Type 400 MM Shaft with Bi-Directional Flow, 2.5 Inch LCD Display, 0.1...300 Nm/s Measuring Range

Installation Reference

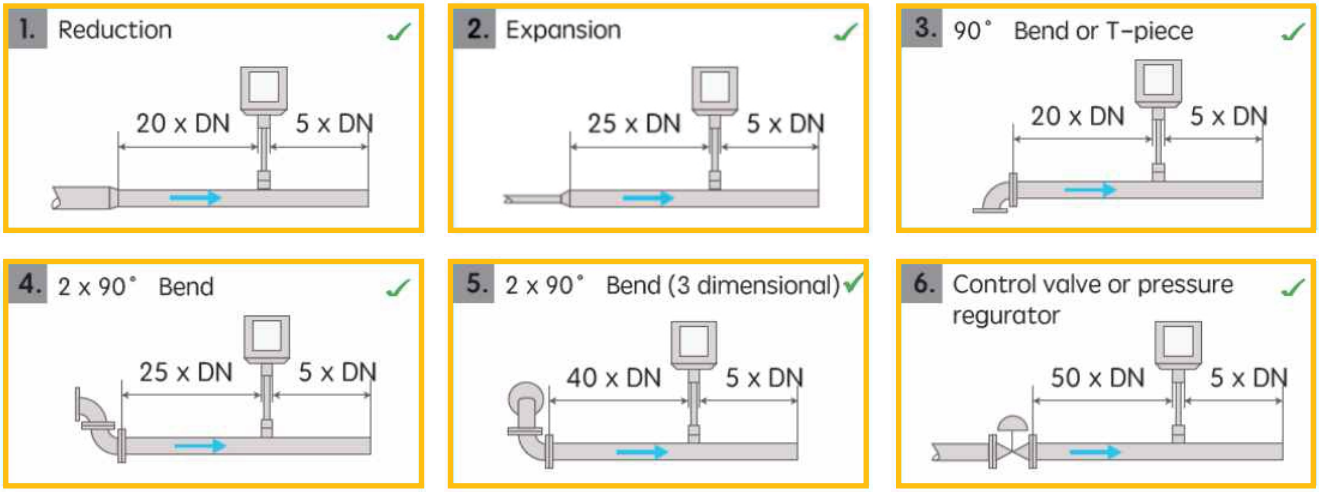






Correct Installation

DN = Pipe Diameter



INTRODUCING THE WAFS-104
INSERTION TYPE THERMAL MASS FLOW SENSOR

Technical Data Sheet

Measuring Range	
Flow Range	0(0.1) ... 250 Nm/s
Accuracy	±(1% reading + 0.3% Full Scale)
Sample Rate	Sample Rate
Reference Cond	20°C, 1 bar(a) - ISO 1217 (Programmable)
Processed Medium (Gas Type)	Compressed Air, Argon (Ar), Carbon Dioxide (CO_2), Helium (He), Hydrogen (H_2), Natural Gas (Ng), Nitrogen (N_2), Nitrous Oxide (N_20), Oxygen(O_2) For use in other gases, Specify gas Composition

Communication Output	
Analog (Standard)	4...20 mA (Isolated) / Pulse Output
Digital (Standard)	RS485, MODBUS RTU Protocol
Connector	2 x 5 - pin M12, Female

Power Supply	
Input	18 to 30V / 5W

Display	
Display	1.5" LCD with Capacitive Touch Panel

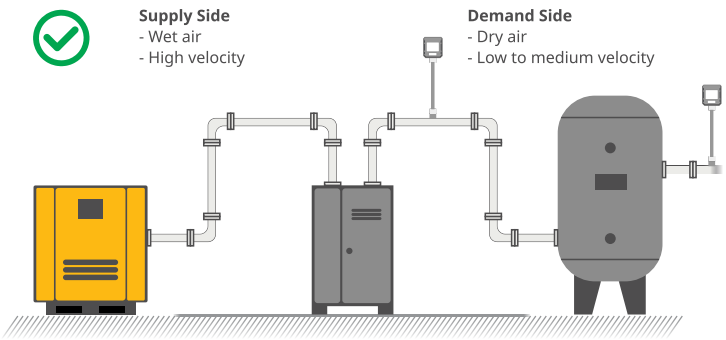
Operating Environment	
Op. Temp	-30 ... +70 °C
Medium Temp	-40 ... 150 °C
Op. Pressure	0...5.0 MPa (>1.6 MPa need Installation Device)

Others	
Casing	Aluminium
Process Conn	G1/2" (ISO 228-1)
EMC	According to IEC 61326-1

FULL DIGITAL SIGNAL PROCESSING FOR HIGHER PRECISION AND BETTER STABILITY

- Thermal Mass Flow, Independent of Temperature and Pressure Change, Integrated Temperature Measurement.
- Ultra-Wide 1:2500 Turndown Ratio, Measurement Range from 0.1 Nm/s to 250 Nm/s.
- Full Electrical Isolation thoroughly Filter out Disturbance 1.5" Ultra-Wide Viewing Angle LCD with Capacitive Touch.
- No Moving Parts, Low Pressure Drop.
- Standard Rs485 Modbus RTU Interface and 4-20mA Current / Pulse Output.
- Suitable for Dn20 to Dn300, can be Installed Online through 1/2" Ball Valve Under Pressure.

Correct Installation



COLOUR GRAPHIC DISPLAY FOR ONLINE VALUES AND SENSOR SETTING

Flow Range

Pipe Size		Flow Range (cfm)		
DN	ID(mm)	Min Flow (cfm)	Std. Range Max Flow (cfm)	High Range Max Flow (cfm)
20	20	0.06	79	166
25	25	0.12	124	260
32	32	0.18	204	425
40	40	0.29	319	666
50	50	0.41	499	1040
65	65	0.71	843	1757
80	80	1.06	1278	2662
100	100	1.65	1996	4160
125	125	2.59	3120	6499
150	150	3.77	4493	9360
200	200	6.65	7986	16639
250	250	10.42	12479	25999
300	300	14.95	17970	37439

Ordering Code

- **WAFS 104 - A**

  Thermal Mass Flow Sensor Insertion Type 250mm Shaft, Measuring Range 0..250 Nm/s, 1.5" Display with Capacitive Touch Panel.

- **WAFS 104 - B**

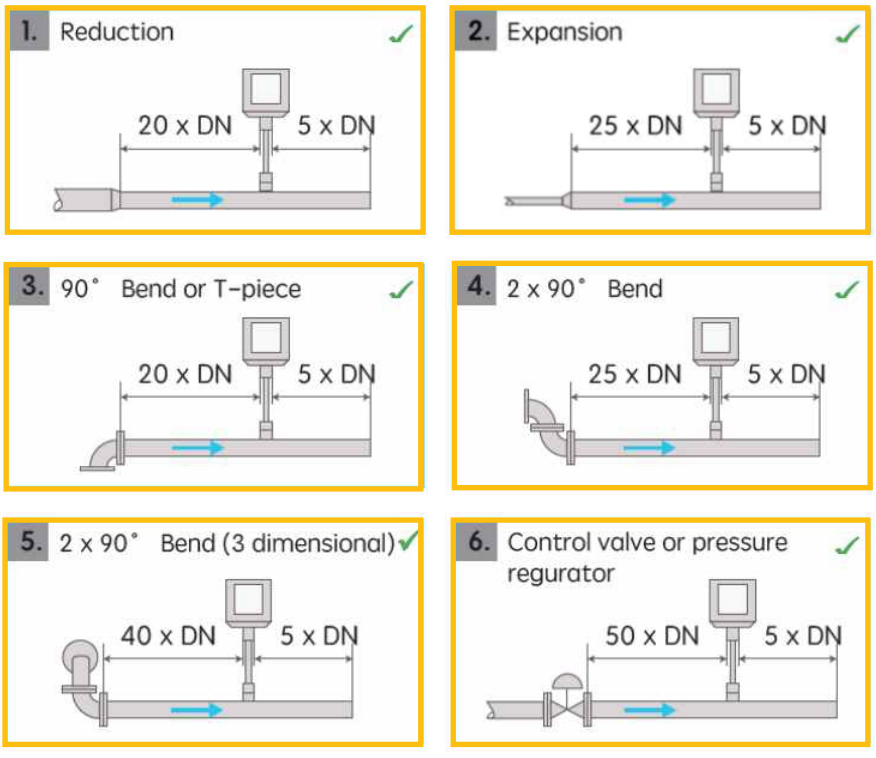
  Thermal Mass Flow Sensor Insertion Type 400mm Shaft, Measuring Range 0..250 Nm/s 1.5" Display with Capacitive Touch Panel.

Applications

- **Thermal Mass Flow Meters are Widely Used in Industrial Processes, Chemical, Petrochemical, Power Engineering, etc.**
- **Compressed Air Consumption Measurement.**
- **Determination of Gas Leakage / Leakage Rate.**
- **Gas Consumption Measurement of a Single Machine / Plant.**
- **Process Gas Measurement, such as Nitrogen, Carbon Dioxide, Oxygen, etc.**
- **Nitrogen Generator.**

Correct Installation

DN = Pipe Diameter



WISE AIR 4.0
MEASURE TO MANAGE

INTRODUCING THE WAFS-105
INLINE TYPE THERMAL MASS FLOW SENSOR

FULL DIGITAL SIGNAL PROCESSING FOR HIGHER PRECISION AND BETTER STABILITY

Technical Data Sheet

Measuring Range	
Flow Range	0(0.1) ... 250 Nm/s
Accuracy	±(1% reading + 0.3% Full Scale)
Sample Rate	Sample Rate
Reference Cond	20°C, 1 bar(a) - ISO 1217 (Programmable)
Processed Medium (Gas Type)	Compressed Air, Argon (Ar), Carbon Dioxide (CO_2), Helium (He), Hydrogen (H_2), Natural Gas (Ng), Nitrogen (N_2), Nitrous Oxide (N_20), Oxygen(O_2) For use in other gases, Specify gas Composition
Communication Output	
Analog (Standard)	4...20 mA (Isolated) / Pulse Output
Digital (Standard)	RS485, MODBUS RTU Protocol
Connector	2 x 5 - pin M12, Female
Power Supply	
Input	18 to 30V / 5W
Display	
Display	1.5" LCD with Capacitive Touch Panel
Operating Environment	
Op. Temp	-30 ... +70 °C
Medium Temp	-40 ... 150 °C
Op. Pressure	1.6 MPa (Option:4.0 MPa)
Others	
Casing	Aluminium
Process Conn	G1/2" (ISO 228-1)
EMC	According to IEC 61326-1

- Thermal Mass Flow, Independent of Temperature and Pressure Change, Integrated Temperature Measurement.
- Ultra-Wide 1:2500 Turndown Ratio, Measurement Range from 0.1 Nm/s to 250 Nm/s.
- Full Electrical Isolation thoroughly Filter out Disturbance 1.5" Ultra-Wide Viewing Angle LCD with Capacitive Touch.
- Standard Rs485 Modbus RTU Interface and 4-20mA Current / Pulse Output.
- Pipe Size : DN15, DN20, DN32, DN40, DN50, DN65, DN80 Connection : R Thread, Flange EN1092-1, ANSI/B16.5 Measures Standard Flow, Mass Flow, Consumption and Temperature.
- No Moving Parts, Stable Signal, Vibration Proof, High Reliability, Long-Term Measurement Accuracy.
- Full Digital Signal Processing Instead of Traditional Analog Bridge Design, Making the Flow Meter more Accurate and Capable of Wider Measuring Range.

Flow Range

Pipe Size		Flow Range (cfm)	
DN	ID(mm)	Min Flow (cfm)	Max Flow (cfm)
15	15	0.04	45
20	20	0.06	79
25	25	0.12	125
32	32	0.18	204
40	40	0.29	319
50	50	0.41	499
65	65	0.71	843
80	80	1.06	1278

Applications

- Thermal Mass Flow meters are Widely used in Industrial Processes, Chemical, Petrochemical, Power Engineering, etc.
- Compressed Air Consumption Measurement.
- Gas Consumption Measurement of a Single Machine / Plant
- Nitrogen Generator
- Determination of Gas Leakage / Leakage Rate.
- Process Gas Measurement, such as Nitrogen, Carbon Dioxide, Oxygen, etc

Ordering Code

- **WAFS 105 - A**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g),measuring range 0 ..250 Nm/s, 1.5" display withCapacitive Touch Panel, R Thread, DN 15, 1/2"

- **WAFS 105 - B**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g),measuring range 0 ..250 Nm/s, 1.5" display withCapacitive Touch Panel, R Thread, DN 20, 3/4"

- **WAFS 105 - C**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g),measuring range 0 ..250 Nm/s, 1.5" display withCapacitive Touch Panel, R Thread, DN 25, 1"

- **WAFS 105 - D**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g),measuring range 0 ..250 Nm/s, 1.5" display withCapacitive Touch Panel, R Thread, DN 32, 1/4"

- **WAFS 105 - E**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g),measuring range 0 ..250 Nm/s, 1.5" display withCapacitive Touch Panel, R Thread, DN 40, 1/2"

- **WAFS 105 - F**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g),measuring range 0 ..250 Nm/s, 1.5" display withCapacitive Touch Panel, R Thread, DN 50, 2"

INTRODUCING THE WAFS-106
INSERTION TYPE THERMAL MASS FLOW SENSOR

Technical Data Sheet

Measuring Range	
Flow Range	0(0.1) ... 250 Nm/s
Accuracy	±(1% reading + 0.3% Full Scale)
Sample Rate	Sample Rate
Reference Cond	20°C, 1 bar(a) - ISO 1217 (Programmable)
Processed Medium (Gas Type)	Compressed Air, Argon (Ar), Carbon Dioxide (CO_2), Helium (He), Hydrogen (H_2), Natural Gas (Ng), Nitrogen (N_2), Nitrous Oxide (N_20), Oxygen(O_2) For use in other gases, Specify gas Composition

Communication Output	
Analog (Standard)	4...20 mA (Isolated) / Pulse Output
Digital (Standard)	RS485, MODBUS RTU Protocol
Wireless	Bluetooth (Standard), Lora (Option)
Connector	2 x 5 - pin M12, Female

Power Supply	
Input	18 to 30V / 5W

Display / Data Logger	
Display	1.5" LCD with Capacitive Touch Panel
Data Logger	10,000,000 Samples

Operating Environment	
Op. Temp	-30 ... +70 °C
Medium Temp	-40 ... 150 °C
Op. Pressure	0...5.0 MPa (>1.6 MPa need Installation Device)

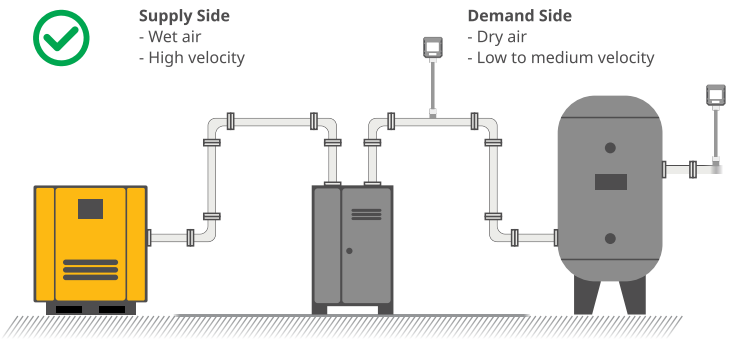
Others	
Process Conn	G1/2" (ISO 228-1)
EMC	According to IEC 61326-1

Bluetooth®

SPECIALLY DESIGNED WITH PATENTED ANTI CONDENSATION TECHNOLOGY

- Thermal Mass Flow, Independent of Temperature and Pressure Change, Integrated Temperature Measurement.
- Ultra-Wide 1:2500 Turndown Ratio, Measurement Range from 0.1 Nm/s to 250 Nm/s.
- Full Electrical Isolation thoroughly Filter out Disturbance 2.8" Ultra-Wide Viewing Angle LCD with Capacitive Touch.
- No Moving Parts, Low Pressure Drop.
- Optional Data Logging, 10,000,000 Recording Points.
- With Bluetooth Function for Wireless Sensor Configuration and Data Transmission.
- Standard RS485 Modbus RTU Interface and4-20mA current / pulse Output.
- Suitable for DN20 to DN1000, can be Installed Online through 1/2" Ball Valve under Pressure.

Correct Installation



COLOUR GRAPHIC DISPLAY FOR ONLINE VALUES AND SENSOR SETTING

Flow Range

Pipe Size		Flow Range (cfm)		
DN	ID(mm)	Min Flow (cfm)	Std. Range Max Flow (cfm)	High Range Max Flow (cfm)
20	20	0.06	79	166
25	25	0.12	124	260
32	32	0.18	204	425
40	40	0.29	319	666
50	50	0.41	499	1040
65	65	0.71	843	1757
80	80	1.06	1278	2662
100	100	1.65	1996	4160
125	125	2.59	3120	6499
150	150	3.77	4493	9360
200	200	6.65	7986	16639
250	250	10.42	12479	25999
300	300	14.95	17970	37439

Applications

- Compressed Air Consumption Measurement.
- Gas Consumption Measurement of a Single Machine / Plant
- Thermal Mass Flow meters are Widely used in Industrial Processes, Chemical, Petrochemical, Power Engineering, etc.
- Determination of Gas Leakage / Leakage Rate.
- Process Gas Measurement, such as Nitrogen, Carbon Dioxide, Oxygen, etc

Ordering Code

- **WAFS 106 - A**

  Thermal Mass Flow Sensor Insertion Type 250mmShaft, measuring range 0..250 Nm/s, 2.8" display with Capacitive Touch Panel

- **WAFS 106 - B**

  Thermal Mass Flow Sensor Insertion Type 400mmShaft, measuring range 0..250 Nm/s, 2.8" display with Capacitive Touch Panel

- **WAFS 106 - AH**

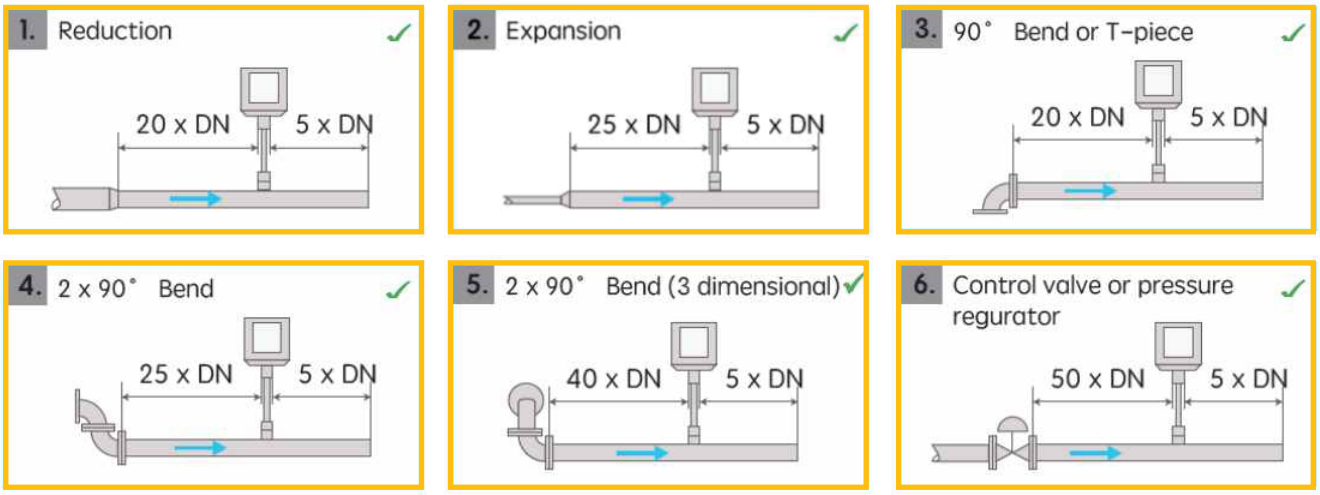
  Thermal Mass Flow Sensor, Insertion Type 250mmShaft with in-Built Data Logger, 2.5 Inch LCD Display,0.1...250 Nm/s Measuring Range

- **WAFS 106 - BH**

  Thermal Mass Flow Sensor, Insertion Type 400mmShaft with in-Built Data Logger, 2.5 Inch LCD Display,0.1...250 Nm/s Measuring Range

Correct Installation

DN = Pipe Diameter



INTRODUCING THE WAFS-107
INLINE TYPE THERMAL MASS FLOW SENSOR

FULL DIGITAL SIGNAL PROCESSING FOR HIGHER PRECISION AND BETTER STABILITY

Technical Data Sheet

Measuring Range	
Flow Range	0(0.1) ... 250 Nm/s
Accuracy	±(1% reading + 0.3% Full Scale)
Sample Rate	Sample Rate
Reference Cond	20°C, 1 bar(a) - ISO 1217 (Programmable)
Processed Medium (Gas Type)	Compressed Air, Argon (Ar), Carbon Dioxide (CO_2), Helium (He), Hydrogen (H_2), Natural Gas (Ng), Nitrogen (N_2), Nitrous Oxide (N_20), Oxygen(O_2) For use in other gases, Specify gas Composition

Communication Output	
Analog (Standard)	4...20 mA (Isolated) / Pulse Output
Digital (Standard)	RS485, MODBUS RTU Protocol
Wireless	Bluetooth (Standard), Lora (Option)
Connector	2 x 5 - pin M12, Female

Power Supply	
Input	18 to 30V / 5W

Display / Data Logger	
Display	1.5" LCD with Capacitive Touch Panel
Data Logger	10,000,000 Samples

Operating Environment	
Op. Temp	-30 ... +70 °C
Medium Temp	-40 ... 150 °C
Op. Pressure	1.6 MPa (Option:4.0 MPa)

Others	
Process Conn	G1/2" (ISO 228-1)
EMC	According to IEC 61326-1

- Thermal Mass Flow, Independent of Temperature and Pressure Change, Integrated Temperature Measurement.
- Ultra-Wide 1:2500 Turndown Ratio, Measurement Range from 0.1 Nm/s to 250 Nm/s.
- Full Electrical Isolation thoroughly Filter out Disturbance2.8" Ultra-Wide Viewing Angle LCD with Capacitive Touch.
- Optional Data Logging, 10,000,000 Recording Points.
- With Bluetooth Function for Wireless Sensor Configuration and Data Transmission.
- Pipe Size : DN15, DN20, DN32, DN40, DN50, DN65, DN80Connection : R Thread, Flange EN1092-1 , ANSI/B16.5 Measures Standard Flow, Mass Flow, Consumption and Temperature.
- No Moving Parts, Stable Signal, Vibration Proof, High Reliability, Long-Term Measurement Accuracy.
- Full Digital Signal Processing instead of Traditional Analog Bridge Design, making the Flow Meter more Accurate and Capable of Wider Measuring Range
- Standard RS485 Modbus RTU Interface and4-20mA current / pulse Output.

Flow Range

Pipe Size		Flow Range (cfm)	
DN	ID(mm)	Min Flow (cfm)	Max Flow (cfm)
15	15	0.04	45
20	20	0.06	79
25	25	0.12	125
32	32	0.18	204
40	40	0.29	319
50	50	0.41	499
65	65	0.71	843
80	80	1.06	1278

Applications

- Compressed Air Consumption Measurement.
- Gas Consumption Measurement of a Single Machine / Plant.
- Thermal Mass Flow meters are Widely used in Industrial Processes, Chemical, Petrochemical, Power Engineering, etc.
- Determination of Gas Leakage / Leakage Rate.
- Process Gas Measurement, such as Nitrogen, Carbon Dioxide, Oxygen, etc

Ordering Code

- **WAFS 107 - A**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g), 2.8" IPS Wide Viewing Angle LCD with Capacitive Touch Panel, R Thread, DN 15, 1/2"

- **WAFS 107 - B**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g), 2.8" IPS Wide Viewing Angle LCD with Capacitive Touch Panel, R Thread, DN 20, 3/4"

- **WAFS 107 - C**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g), 2.8" IPS Wide Viewing Angle LCD with Capacitive Touch Panel, R Thread, DN 25, 1"

- **WAFS 107 - D**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g), 2.8" IPS Wide Viewing Angle LCD with Capacitive Touch Panel, R Thread, DN 32, 1/4"

- **WAFS 107 - E**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g), 2.8" IPS Wide Viewing Angle LCD with Capacitive Touch Panel, R Thread, DN 40, 1/2"

- **WAFS 107 - F**

  Thermal Mass Flow Sensor Inline Type 0 - 16 Bar (g), 2.8" IPS Wide Viewing Angle LCD with Capacitive Touch Panel, R Thread, DN 50, 2"

INTRODUCING THE WAFS-108
COMPACT FLOW SENSOR

Introduction

Introducing the WAFS 108 Compact Thermal Mass Flow Sensor – your economical choice for precise measurement at consumption points. Effortlessly adaptable, the WAFS 108 excels in measuring a wide range of gases, including nitrogen, without needing extra compensations for air pressure or temperature. Experience high-resolution, rapid, and accurate readings tailored to streamline your end-use monitoring

Key Features

- Thermal Mass Flow, Independent of Temperature and Pressure Change, Integrated temperature and Pressure Measurement.
- Ultra Wide 1:100 Turndown Ratio.
- Complete Stainless Steel Body Construction.
- Specially Designed Flow Conditioner for Accurate Measurement without Pressure Drop
- Standard RS485 Modbus RTU Interface
- In-Built Pressure Sensor
- No Moving Parts, Stable Signal, Vibrant Proof, High Reliability, Long Term Measurement Accuracy
- Full Digital Signal Processing instead of Traditional Analog Bridge Design, making the Flow Meter more accurate and capable of Wider Measuring Range.

Technical Data Sheet

Measuring Range	
Flow Range	0.1 to 52 SCFM
Accuracy	±(1.5% reading + 0.3% full scale)
Available Sizes	DN 15, DN 20, DN 25, DN 40, Dn50
Reference Cond	20°C, 1bar(a) - ISO 1217

Communication Output	
Analog	On Request
Digital (Standard)	RS485, Modbus RTU Protocol
Connector	2 x 5 - Pin M12 (Female)

Power Supply	
Input	18...30V / 5W

Display	
Display	Analog

Operating Environment	
Operating Temperature	-30°C...+70°C
Medium Temperature	-40°C...+150°C
Operating Pressure	0...1.6 Mpa

Others	
Body Material	Stainless Steel
EMC	Accornding to IEC 61326-1

Ordering Code

- **WAFS-108 E**

  Compact Flow Sensor Suitable for Compressed Air and for Installation with Pipe Size of 1/2 Inches (OD) with 1.5% Accuracy.

- **WAFS-108 G**

  Compact Flow Sensor Suitable for Carbon-Di-Oxide and for Installation with Pipe Size of 1 Inches (OD).

Applications

- Thermal Mass Flow meters are Widely used in Industrial Processes, Chemical, Petrochemical, Power Engineering, etc.
- Suitable for Compressed Air Consumption Measurement.
- Determination of Gas Leakage / Leakage Rate.
- Suitable for Gas Consumption Measurement of a Single Machine / Points of use
- Suitable for Process Gas Measurement, such as Nitrogen, Carbon Dioxide, Oxygen, etc
- Suitable for Nitrogen Generators

INTRODUCING THE WUFS-904 ULTRASONIC FLOW METER

Technical Data Sheet

Performance	
Flow range	±0.09ft/s ~ ±39ft/s (±0.03m/s ~ ±12m/s)
Accuracy	±1% of measured value
Repeatability	0.2% of measured value
Linearity	±1%
Pipe size	DN25mm~DN1200mm DN15~DN40mm (A pair of sensors)

Function	
Outputs	Analog output: 4~20mA, max load 750Ω. Pulse output: 0~10KHz
Communication	RS232/RS485 Modbus
Power supply	10~36VDC/AC90~245V
Display	240*128 backlit LCD
Temperature	Transmitter: -14°F~140°F(-20°C~60°C) Transducer:-40°F~176°F(-40°C~80°C,TT01, TT02) Transducer:-40°F~266°F(-40°C~130°C,TT03)
Humidity	Up to 99% RH,non-condensing

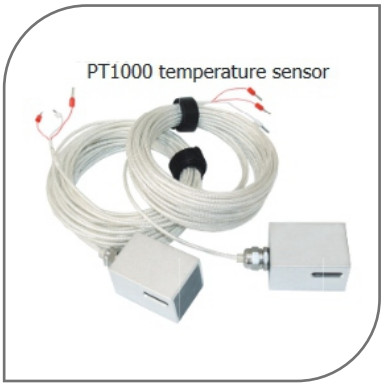
Physical	
Transmitter	PC/ABS,IP65
Transducer	Encapsulated design,IP68 Double-shielded transducer cable Standard/maximum cable length:30ft/1000ft(9m/300m)

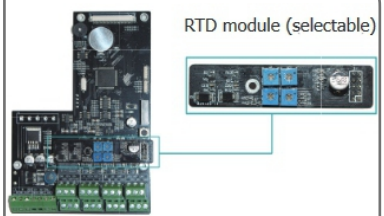
glued transducers

high temp. transducer TT03

normal temp. transducer TT01

- Our Clamp-On flow transducers use a high quality sealant and are sealed with glue inside, ensuring their durability and high-performance. The matching degree between each pair of transducers is ≤2 nanoseconds, making it highly accurate.
- The WUFS 901 is truly IP68 waterproof rated, thanks to its integrated production of transducer and signal cable. Furthermore, its innovative hidden design of clamp fixtures is not only attractive but also practical.





- With the option to use it in conjunction with the RTD module and the PT1000 temperature sensor, theWUFS 901 becomes a reliable meter for measuring heat and cold consumption of heated pipelines and air-conditioning refrigeration pipelines.
- The PT1000 uses high-temperature resistance cables, making it highly sensitive and durable compared to normal PT100s. Experience the convenience and accuracy of the WUFS 901 in your flow measurement application today!

Optional Transducers (DN25-DN1200mm)

Clamp-on ：TTO1
（Operating temperature：-40°C ~ +80°C）

Ordering Code

- **GAC 11**

  Transducer Cable Pair for Pipe Ranges from DN 15-100 mm including 5 Mtrs Cable and Metal Stretcher

- **GAC 12**

  Transducer Cable Pair for Pipe Ranges from DN 50-700 mm including 5 Mtrs Cable and Metal Stretcher

- **GAC 13**

  Transducer Cable Pair for Pipe Ranges from DN 300-600 mm including 5 Mtrs Cable and Metal Stretcher

Clamp-on ：TTO2
（Operating temperature：-40°C ~ +80°C）

Clamp-on ：TTO3
（Operating temperature：-40°C ~ +130°C）

Clamp-on ：TTO2H
（Operating temperature：-40°C ~ +180°C）

Insertion-type：TTO5
（Operating temperature：-40°C ~ +130°C）

Clamp-on Ultrasonic Heatmeter : TT03-PT1000

Insertion type Ultrasonic Heatmeter : TT05-PT1000

(Operating temperature：Within 70 °C)

Double guide bracket

WISE AIR 4.0
MEASURE TO MANAGE

INTRODUCING THE WAFS-1100 VORTEX FLOW METER

Introduction

The WAFS-1100 vortex flow meter is based on the Karman vortex principle to measure gas, steam, or liquid volume flow. It is widely used for industrial measurement because of its anti-pollution ability, simplified structure, and high reliability.

WAFS-1100 integrated temperature and pressure sensor automatically calculates the mass flow of the medium through the international standard density compensation algorithm.

Due to the built-in ultra-high sensitivity dual vortex sensor, the flow meter can simultaneously detect the flow signal and interference signal, through the algorithm can automatically identify the flow signal and vibration, electromagnetic disturbance signal.

In comparison to the traditional vortex flow meter, the newly developed DSA (Digital Spectrum Analysis) technology greatly improves the low limit of measurement, turndown ratio, anti-vibration, and anti-disturbanceperformance of flow meters, providing users with high accuracy and long-term stability.

Explosion-proof structure design, applicable to harsh environments

Explosion-proof class: Ex db IIC T6 Gb / Ex tb IIIC T80°C Db

Protection code: Ip67

Product Advantages

1.5 m/s — High Sensitivity
The low measuring limit of gas flow rate can reach 1.5 m/s

Wide Measuring Range
The turndown range ratio is 1:53, which exceeds the traditional vortex flow meters

The Explosion-proof Certification
Ex db IIC T6 Gb
Ex tb IIIC T80˚C Db

Protection Code IP67

Anti-vibration
ultrasensitive dual vortex sensor for simultaneous detection of flow and vibration.

Technical Data Sheet

	WAFS-1100
Measuring Medium	Medium: Gas / Steam / Liquid
Flow	Measuring Range: • 1.5 m/s – 80 m/s (Gas/Steam) • 0.15 m/s – 8 m/s (Liquid)
	Accuracy: Class 1.0
	Repeatability: ±0.2% RD
	Reference Condition: 20°C, 1 bar(a) - ISO 1217 (Configurable)
Pressure	Measuring Range: 0 ... 1.7 MPa (6.3 MPa Option)
	Accuracy: ±0.5% FS
Temperature	Measuring Range: • -40 ... +280°C (Mid temperature) • -40 ... +350°C (High temperature)
	Accuracy: ±0.5°C (±1.0%FS @ > 100°C)
Power	Power: 18 ... 30 VDC 10W @ 24VDC
Display	Display: 2.0" IPS LCD with capacitive touch
	Operating Environment
	Environment Temperature: -40 ... +85°C
	Environment Humidity: 0 ... 95% RH
Output	4-20 mA Output (Standard): Flow rate / Temperature / Pressure
	Frequency Output (Standard): Actual flow rate
	Pulse (Standard): Consumption / Alarm
	Digital Output (Standard): Modbus RTU (Rs485)
	Wireless Communication: Bluetooth, Lora (Option)
	Connector: Wiring terminal
Explosion-proof Class & Protection Code	Explosion-proof Class: Ex db IIC T6 Gb / Ex tb IIIC T80°C Db
	Protection Code: IP67
Others	Process Connection: Wafer type / Flange-type
	Product Material: • Main Body: 304 / 316L • Vortex Sensor: 316L • Meter Housing: Aluminum / Stainless steel
	EMC: Compliant with IEC 61326-1

Measuring Range

Inch	DN	ID (mm)	Flow Velocity (m/s)	Flow Rate (m^3/h)	Mass Flow Rate (Kg/h)
1/2	15	15	5 ... 80	3 ... 90	16 ... 233
3/4	20	20	5 ... 80	5 ... 90	26 ... 414
1	25	25	4 ... 80	7 ... 141	32 ... 648
1 1/4	32	32	3 ... 80	8 ... 231	39 ... 1062
1 1/2	40	40	2 ... 80	9 ... 361	41 ... 1659
2	50	50	1 ... 80	10 ... 565	48 ... 2593
2 1/2	65	65	1 ... 80	17 ... 955	82 ... 4383
3	80	80	1 ... 80	27 ... 1446	124 ... 6640
4	100	100	1 ... 80	42 ... 2260	194 ... 10375
5	125	125	1 ... 80	66 ... 3535	303 ... 16211
6	150	150	1 ... 80	95 ... 5088	437 ... 23344
8	200	200	1 ... 80	169 ... 9043	773 ... 41500
10	250	250	1 ... 80	265 ... 14130	1216 ... 64844
12	300	300	1 ... 80	381 ... 20347	1751 ... 93375

Ordering Code

WAFS-1101 - A

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn15, Medium Pressure - 1.6 Mpa, Standard Temperature (-40...+160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - B

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn20, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - C

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn25, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - D

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn32, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - E

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn40, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - F

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn50, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - G

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn65, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - H

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn80, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - I

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn100, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - J

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn125, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - K

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn150, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - L

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn200, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - M

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn250, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - N

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn300, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

WAFS-1101 - O

Vortex Flow Meter, Compensated Mass Flow, Modbus Output, Wafer-Type (With Special Fanges, Bolts, Nuts, Metal Gaskets), Dn350, Medium Pressure - 1.6 Mpa, Standard Temperature (-40 ... +160°C), Medium Gas, Aluminum Housing, Standard Accuracy Class

INTRODUCING THE WADS-201 | 202 | 203 | 204
DEW POINT SENSOR

- For high tech applications with a measurement range of -60°Ctd to +60°Ctd & -80°Ctd to +20°Ctd
- Quick Response Time
- Dual Sensor System for high precision over the whole range.
- Compact size makes them ideal for dryer installations.
- Accuracy ± 2°C IP65 rated
- Strong contamination resistance
- Signal Output: Modbus RTU interface and 4-20mA current / pulse output.
- Modbus output signal are Pressure Dew Point (PDP), Relative Humidity, Temperature and Optional Integrated pressure transducer
- 4-20mA output signal are Pressure Dew Point (PDP)

Technical Data Sheet

	WADS 201	WADS 202	WADS 203	WADS 204
Technology	Polymer Capacitive	Polymer Capacitive	Polymer Capacitive	Quartz (AMC)
Casing	Aluminum	Stainless Steel	Stainless Steel	Stainless Steel
Dryer Types - Upto 40 bar (600psi)				
Dessicant Dryers	(above -40°C)	(above -50°C)	(above -60°C)	(below -20°C)
Membrane Dryers	✓	✓	✓	✓
Refrigerant Dryers	✓	✓	✗	✗
Measuring Ranges				
Dew Point Range (Variants)	A : -60°C to +20°C B : -60°C to +60°C	A : -60°C to +20°C B : -60°C to +60°C	A : -60°C to +20°C B : -60°C to +60°C C : -80°C to +20°C	A : -110°C to +0°C
Operating Pressure Range	0 to 40 bar	0 to 40 bar or 0 to 16 bar if using the integr ated pressure sensor		
Gas Temperature Range	-40°C to +100°C			
Accuracy	Dew Point : ± 2 °C Temperature : ±0.5°C	Dew Point : ± 2 °C Temperature : ±0.5°C	Dew Point : ± 2 °C Temperature : ±0.5°C Pressure: ±0.3% full scale (at 23°C), ±0.01 bar/10°C	Dew Point : ± 2 °C Temperature : ±0.5°C Pressure: ±0.3% full scale (at 23°C), ±0.01 bar/10°C
Minimum Gas Flow Rate	> 1 L / min	> 1 L / min	> 1 L / min	> 1 L / min
Output Signals				
Pressure Dew Point (PDP)	✓	✓	✓	✓
Gas Temperature	✓	✓	✓	✓
Relative Humidity	✓	✓	✓	✓
Pressure Transducer	✗	Optional	Optional	Optional
Analogue Output (4..20 mA)	PDP Only	PDP Only	PDP Only	PDP Only
Digital Output (Modbus)	(PDP, Temp, RH, Pressure)	(PDP, Temp, RH, Pressure)	(PDP, Temp, RH, Pressure)	(PDP, Temp, RH, Pressure)
Others				
Connectors	5 Pin M8	5 Pin M12		

Ordering Code

- **WADS 201 - A**

  -60° ctd to +20° ctd. Its proven polymer film technology provides strong contamination resistance. Suitable for refrigerant Dryers. (Compact Design)

- **WADS 201 - B**

  -60° ctd to +60° ctd. Its proven polymer filmt echnology provides strong contamination resistance. Suitable for refrigerant Dryers. (Compact Design)

- **WADS 202- A**

  -60° ctd to +20° ctd. Its proven polymer film technology provides strong contamination resistance. Suitable for refrigerant Dryers.

- **WADS 202 - B**

  -60° ctd to +60° ctd. Its proven polymer film technology provides strong contamination resistance. Suitable for refrigerant Dryers.

- **WADS 203 - A**

  -60°C to +20°C. This new generation polymer dew point sensor has auto drift correction (ADC) technology which ensures industry leading accuracy and consistency of readings.

- **WADS 203 - B**

  -60°C to +60°C. This new generation polymer dew point sensor has auto drift correction (ADC) technology which ensures industry leading accuracy and consistency of readings.

- **WADS 203 - C**

  -80°C to +20°C. This new generation polymer dew point sensor has auto drift correction (ADC) technology which ensures industry leading accuracy and consistency of readings.

- **WADS 204 - A**

  -110°C to +0°C. The most advanced quartz technology dew point sensor available. Newly developed moisture sensitive materials provide superior signal sensitivity under ultra-low humidity conditions.

INTRODUCING THE WADS-205 | 206
DEW POINT MONITOR

Precision Sensor Design Compensates for Drift Caused By Temperature, Contamination and Ageing Providing Long-term, Reliable, High-Accuracy Measurements.

Innovative Temperature Compensation Algorithm and Multi-point Temperature Compensation Calibration Greatly Improves the Sensor's Temperature Drift and Ensures High-precision Measurement over A Wide Temperature Range.

Key Features

- Based On Polymer Film Sensor Technology
- MEMS Based Pressure Sensor for Simultaneous Monitoring of Dew Point and Online Pressure (Absolute Pressure 1 ... 17 Bar)
- Accurate to +/-2° Ctd with up to 9 Dew Point Calibration and Multi-point Temperature Compensation
- Ultra-fast Response
- Excellent Long-term Stability
- Innovative Anti-condensation, Particle, Oil and Most Chemicals Technology
- High Resistance to Electrical Disturbance

Technical Data Sheet

	WADS 205	WADS 206
Measuring Range		
Dew Point	-60 ...+60^0 Ctd	-80 ...+20^0 Ctd
Temperature	-40...+100^0 C	
Pressure	0...17 bar (a)	
Dew Point Accuracy	(Air & Nitrogen)	
	+20...-60°C	+/- 2° Ctd
	-60...-80°C	+/- 3° Ctd
Temperature Accuracy	(Higher Accuracy Can be Provided on Request)	
	+ 0...+50°C	+/- 3°C (Standard)
	-40°C...+ 0°C & +50°C....+100°C	+/- 5°C (Standard)
Pressure Accuracy		
	@ 23° C (Standard)	+/- 3% Full Scale
	Pressure Temperature Dependence	+/- 0.01 bar / 10°C
Response Time	Dew Point Sensor Reference : 63% (90%), 20^0 C, 1bar(gauge), 4L/min	
	-50 > + 20° Ctd	20 Secs - 40 Secs
	+20 > - 50° Ctd	1 Min - 3 Mins
	Pressure Sensor	< 1 Sec
Outputs		
Display	Red / Green Display Lights	
Alarm	Buzzer (Optional)	
Power		
Input	220V AC, 10W	
Working Environment		
Operating Temperature	-30....+70°C	
Storage Temperature	-40....+80°C	
Relative Humidity	0...95 % RH	
Sampling Gas Flow Rate	> 1 L/min	
Pressure Rating	0....17 bar (a)	
Others		
Process Connection	ϕ6mm Stainless Steel Quick Connector	
Sensor Protection	Stainless Steel Sinter Filter 30-45 Micron	
EMC	According to IEC 61326-1	

Ordering Code

- **WADS 205**

  Dew point monitor, -60...+60°Ctd

- **WADS 205 - A**

  Dew point monitor, -60...+60° Ctd, Integrated online Pressure Sensor, Pressure Dew point & Atm. Dew point

- **WADS 205 - B**

  Dew point monitor, -60...+60° Ctd, with Red/Green light and buzzer alarm

- **WADS 205 - C**

  Dew point monitor, -60...+60° Ctd, Integrated online Pressure Sensor, Pressure Dew point & Atm. Dewpoint, with Red/Green light and buzzer alarm

- **WADS 206**

  Dew point monitor, -80...+20°Ctd

- **WADS 206 - A**

  Dew point monitor, -80...+20° Ctd, Integrated online Pressure Sensor, Pressure Dew point & Atm. Dew point

- **WADS 206 - B**

  Dew point monitor, -80...+20° Ctd, with Red/Green light and buzzer alarm

- **WADS 206 - C**

  Dew point monitor, -80...+20° Ctd, Integrated online Pressure Sensor, Pressure Dew point & Atm. Dew point, with Red/Green light and buzzer alarm

Benefits of Pressure Dew Point Monitor

- **Reduces Operating and Energy Costs**
- **Improves Down Stream Filter Life and Performance**
- **Increase the life span of your compressed air system and its components**
- **Reduces Maintenance and Makes the compressed air system more Reliable & Efficient**
- **Ensures stable quality of your products through less problems in operation of the system**
- **Enables fast responses to failures in compressed air drying through permanent monitoring of pressure dew point. Reduces Risk of Bacteria, Fungus and Yeast Build Up**
- **Alerts you to changes in Dryer Performance Before Moisture Appears in your Plant.**

INTRODUCING THE WADS-207 | 208
DEW POINT SENSOR

Precision Sensor Design Compensates for Drift Caused By Temperature, Contamination and Ageing Providing Long-term, Reliable, High- Accuracy Measurements.

Innovative Temperature Compensation Algorithm and Multi-point Temperature Compensation Calibration Greatly Improves the Sensor's Temperature Drift and Ensures High-precision Measurement over A Wide Temperature Range.

Key Features

- Based On Polymer Film Sensor Technology
- MEMS Based Pressure Sensor for Simultaneous Monitoring of Dew Point and Online Pressure (Absolute Pressure 1 ... 17 Bar)
- Accurate to +/-2° Ctd with up to 9 Dew Point Calibration and Multi-point Temperature Compensation
- Ultra-fast Response
- Excellent Long-term Stability
- Innovative Anti-condensation, Particle, Oil and Most Chemicals Technology
- High Resistance to Electrical Disturbance

Benefits of Pressure Dew Point Monitoring

- Reduces Operating and Energy Costs
- Improves Down Stream Filter Life and Performance
- Increase the life span of your compressed air system and its components
- Reduces Maintenance and Makes the compressed air system more Reliable & Efficient
- Ensures stable quality of your products through less problems in operation of the system
- Enables fast responses to failures in compressed air drying through permanent monitoring of pressure dew point. Reduces Risk of Bacteria, Fungus and Yeast Build Up
- Alerts you to changes in Dryer Performance Before Moisture Appears in your Plant.

Technical Data Sheet

	WADS 207	WADS 208
Measuring Range		
Dew Point	-60 ...+60⁰ Ctd	-80 ...+20⁰ Ctd
Temperature	-40...+100⁰ C	
Pressure	0...17 bar (a)	
Dew Point Accuracy	(Air & Nitrogen)	
	-60...+60°C	+/- 2° Ctd
	-80...+20°C	+/- 3° Ctd
Temperature Accuracy	(Higher Accuracy Can be Provided on Request)	
	+ 0...+50°C	+/- 3°C (Standard)
	-40°C...+ 0°C & +50°C....+100°C	+/- 5°C (Standard)
Pressure Accuracy		
	@ 23° C (Standard)	+/- 3% Full Scale
	Pressure Temperature Dependence	+/- 0.01 bar / 10°C
Response Time	Dew Point Sensor Reference : 63% (90%), 20⁰ C, 1bar(gauge), 4L/min	
	-50 > + 20° Ctd	20 Secs - 40 Secs
	+20 > - 50° Ctd	1 Min - 3 Mins
	Pressure Sensor	< 1 Sec
Outputs		
Signals	Analog (4..20mA (4Wire, Isolated)/Pluse Output Digital : RS485 Modbus / RTU	
Parameters	Atm.Dew point, Humidity, Temperature, Pressure, Dew point	
Power		
Input	24V, 1 Amps	
Working Environment		
Operating Temperature	-30....+70°C	
Storage Temperature	-40....+80°C	
Relative Humidity	0...95 % RH	
Sampling Gas Flow Rate	> 1 L/min	
Pressure Rating	0....17 bar (a)	
Others		
Connectors	M12 (5 Pin)	
Sensor Protection	Stainless Steel Sinter Filter 30-45 Micron	
EMC	According to IEC 61326-1	

Ordering Code

WADS 207 - A

Dew Point Sensor with 1.5" capacitive touch panel Display Measuring Range : -60...+60⁰ Ctd,

WADS 207 - B

Dew Point Sensor with 1.5" capacitive touch panel Display Measuring Range : -60...+60⁰ Ctd, Integrated online Pressure Sensor, Display of both Pressure Dew point & Atm. Dew point

WADS 208 - A

Dew Point Sensor with 1.5" capacitive touch panel Display Measuring Range : -80...+20⁰ Ctd,

WADS 208 - B

Dew Point Sensor with 1.5" capacitive touch panel Display Measuring Range : -80...+20⁰ Ctd, Integrated online Pressure Sensor, Display of both Pressure Dew point & Atm. Dew point

INTRODUCING THE WAPM-401
HAND-HELD POWER METER

The WAPM 401 Hand-Held Power Meter is a versatile and portable solution for real-time power measurement. Designed for professionals, this device provides accurate data on voltage, current, and power consumption across various applications. Its compact design and user-friendly interface make it ideal for field measurements, troubleshooting, and energy audits.

Advanced features like high-resolution display and data logging, the WAPM 401 ensures efficient energy management and helps identify inefficiencies in electrical systems.

Key Features

- High linearity from 1A to 1000A
- Wide Dynamic Range
- Very useful with large size or awkward shaped conductors or in places with limited access
- No danger from open-circuited secondary
- Not damaged by large overloads
- Non-intrusive, no power is drawn from the main
- Measurement uniformity at any position of the conductor inside the coil
- Excellent degree of rejection to the external current conductor

Applications

- Energy Audits – Evaluates energy consumption in industrial and commercial setups.
- Electrical Maintenance – Provides precise measurements for diagnosing faults and verifying system performance.
- Renewable Energy – Tracks performance of solar panels and wind turbines.
- Industrial Equipment Testing – Assesses energy usage and power quality in heavy machinery.
- Building Management – Ensures efficient energy distribution and detects overloading issues.

Ordering Code

- WAPM - 401

Poles Description : 3PH3W, 3PH4W, 1PH3W, 1PH2W Power Supply : 2900 man Lithium Battery or 5VDC - Harmonics : 51 THD -16 GB Memory, USB - Dick Download Data - Modbus TCP Communication - Connect : Rogowski Coil and 333 mV - 3 Rated Current Selectable : 600A/3kA/6kA (600A/6kA Should Connect to 50 mV/kA Mini Flex, 3kA Should Connect to 85 mV/kA Mini Flex) - Voltage, Current, Harmonic, Demand, Power Factory, Frequency, Max/MinValue, active reactive apparent power and energy Accesssories: 5 Pcs Voltage clamp, Adaoptor - Carry Case of IP 67 Protection Class

	WAPM-4100	WAPM-4120	WAPM-4130	WAPM-4140
Coil Length	80 mm	97 mm	130 mm	300 mm
Window Size	16 mm	24 mm	36 mm	36 mm
Reference Rated Current	100 A	300 A	600 A	100 A
Weight	Approx 80g - 100g			
Coil Resistance	from 100 to 300			
Maximum Current Measurable	100kA			
Coil Section	6 mm			
Lead Length	2 Meters			
Output (di/dt)	Uncalibrated	60mV/kA @ 50Hz 72mV/kA @ 60Hz		
	Calibrated	50mV/kA @ 50Hz 60mV/kA @ 60Hz		
Read Accuracy	Calibrated <0.5% (central position,25 C) Uncalibrated<5% tolerance (central position, 25 C)			
Temperature	Uncalibrated 200ppm/C			
	Calibrated 400ppm/C			
Position Error	±1% Maximum			
Output on 0A (Zero Drift)	≤1 mV			
Phase Error	≤ 0.5 mV			
Linearity	±0.2% of reading			
BandWidth	1 Hz to 1 MHZ (-3dB)			
Operating Temperature	-30 C to 80 C			
Storage Temperature	-40 C to 90 C			

	WAPM-4100	WAPM-4120	WAPM-4130
Coil Length	395 mm	525 mm	665 mm
Window Size	100 mm	150 mm	200 mm
Reference Rated Current	1000 A	3000 A	6000 A
Weight	Approx 100g - 120g		
Coil Resistance	from 100 to 250		
Maximum Current Measurable	100kA		
Coil Section	8 mm		
Lead Length	2 Meters		
Calibrated	85mV/kA @ 50Hz 50mV/kA @ 50Hz		
Uncalibrated	150mV/kA @ 50Hz		
Read Accuracy	Calibrated <0.5% (central position,25 C) Uncalibrated<5% tolerance (central position, 25 C)		
Temperature	Uncalibrated 200ppm/C		
	Calibrated 400ppm/C		
Position Error	±1% Maximum		
Output on 0A (Zero Drift)	≤0.1 mV		
Phase Error	≤ 0.5 mV		
Linearity	±0.2% of reading		
BandWidth	1 Hz to 100 kHz (-3dB)		
Operating Temperature	-30 C to 80 C		
Storage Temperature	-40 C to 90 C		

INTRODUCING THE WAPM-402
PANEL MOUNTED POWER METER

The WiseAir Power Meter is a cutting-edge solution designed to deliver accurate and real-time monitoring of electrical parameters. Ideal for industrial, commercial, and residential applications, it helps users analyze voltage, current, power factor, and energy consumption efficiently.

With advanced analytics and easy integration into existing systems, this power meter empowers users to optimize energy usage, reduce costs, and ensure system reliability. Its durable design and high-performance capabilities make it suitable for a variety of demanding environments.

Key Features

- WAPM 4200 Series Integrators can be combined with any model of WAPM 4100 Series Miniflex coils.
- The available values are 4-20mA DC.
- On Request, the input value can be customized according to the application.
- WAPM 4200 Series Integrator and Miniflex coil are a very flexible system, suitable for high Power load analysis, impulsive current monitoring, DC ripple measurement, etc.
- Due to its specific features, flexible Miniflex coil is an extremely comfortable solution for current measurement and can be used in a number of cases where the traditional current transducer is not an adequate solution.

Applications

- Energy Management – Monitors energy consumption to identify inefficiencies and reduce costs.
- Industrial Automation – Tracks power parameters in complex systems to maintain performance.
- Renewable Energy Systems – Measures output and performance of solar and wind energy installations.
- Building Management Systems – Assists in managing power distribution and detecting overloads.
- Data Centers – Monitors power usage for high-efficiency operations.
- Testing & Maintenance – Aids in diagnosing faults and verifying system performance during electrical testing.

Ordering Code

- **WAPM - 402**

Panel Mounting Multifunction Energy Meter Size 96*96 mm, - Poles Description 3PH3W, 3PH4W, 1PH3W, 1PH2W, Communication RS 485, Power Supply:85-240V, Harmonic 56THD,1*digital Output, Connect: Miniflex coil Rated Current : 500A, 1000A, 3000A, 6000A (Only Choice one point) - U, I, P, Q, S, PF, Hz, EP, EQ, ITHD, UTHD, ITHD%, UTHD%

Technical Data Sheet

	WAPM 402	WAPM 403
Product Component Type	Multifunction Power Meter	
Poles Description	3PH4W 3PH3W 1PH2W(L-N);1PH2W(L-L);1PH3W(L-L-N)	
Device Application	Power Analysis Energy Meter	
Input Type	External CT(333mV only) and External Miniflex Coil	
Display	TFT Screen display	
Sampling Rate	8K samples per Second	
Mounting Mode	Panel Mounting	DIN Rail
Harmonic	52th Max	
Display Characteristics		
Feature	3.5" TFT Screen Display 320*480	2" TFT Screen Display 220*170
Mechanical Characteristics		
Weight	350g	212g
Dimension	L*W*D:96*96*99mm	L*W*D:76*95*71mm
Measurement Accuracy		
Current	0.5% from 1% to 120% (do not ensure accuracy when<10A)	
Rated Current	500A(0.5% from 10A to 600A) 3000A(0.5% from 30A to 3600A) 10kA(0.5% from 100A to 12kA)	
Miniflex Coil Specification	85mV/KA@50Hz±0.5%(default)	
Voltage	0.2% from 80V to 400V(or 100 to 500V)	
Power Factor	±0.005 from 10% to 120%	
Active / Apparent Power	IEC62053-22 V Class 0.5	
Reactive Power	IEC62053-21 Class 2	
Frequency	0.01% from 45 to 65Hz	
Active Energy	IEC62053-22 Class 0.5s	
Reactive Energy	IEC62053-21 Class 2	
Measurement Arrange		
Measured Voltage	80V to 400V AC (or 100 to 500V)	
Frequency Range	50/60Hz	
Input - Current Characteristics		
Primary Current Range	Adjustable from 0.1A to 9999A	
Measurement Input Range	0.3mV - 333mV	
Permissible Overload	400mV Continuous, 1.2V or 1 Second	
Control Power		
AC / DC	85 to 265V AC/DC,3.5W	
Output		
Digital Output	1 X DIGITAL OUTPUT(2 Ports) from 1Pcs relay, rated 24V/800mA, 75mΩ max, 2.5kVrms insulation (controlled by Modbus) Maximum Switching Power: 0.5A, 125VAC 1A,30VDC	
Wire Diameter for Terminals		
Connections - terminals	Screw terminals 2.5mm, interval 5.08mm	
Alarm		
Setting	U and I each Phase, AVG	
Output Form	Relay	

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**

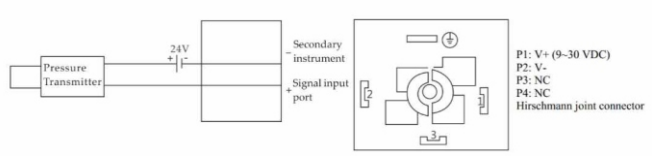
  Pressure Sensor Measuring Range 0..40 Bar, With 4..20 mA Output, G 1/2" Process Connection

Technical Data Sheet

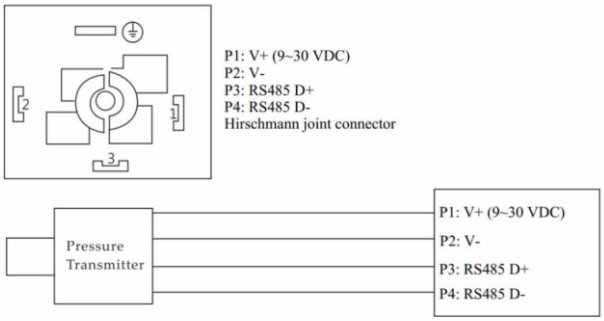
	WAPS 501
Accuracy	± 0.5 %
Measuring Range	0 - 16 Bar / 0 - 40 Bar
Output	4..20 mA, Modbus RTU Analogue Output Signal - Pressure
Input	9 - 30V
Technology	Ceramic Core, Resistant to Moisture
Process Connection	ISO G 1/2" Thread
Casing	Stainless Steel
Ambient Temperature	-20ºC to + 80ºC
Standards	According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

Applications

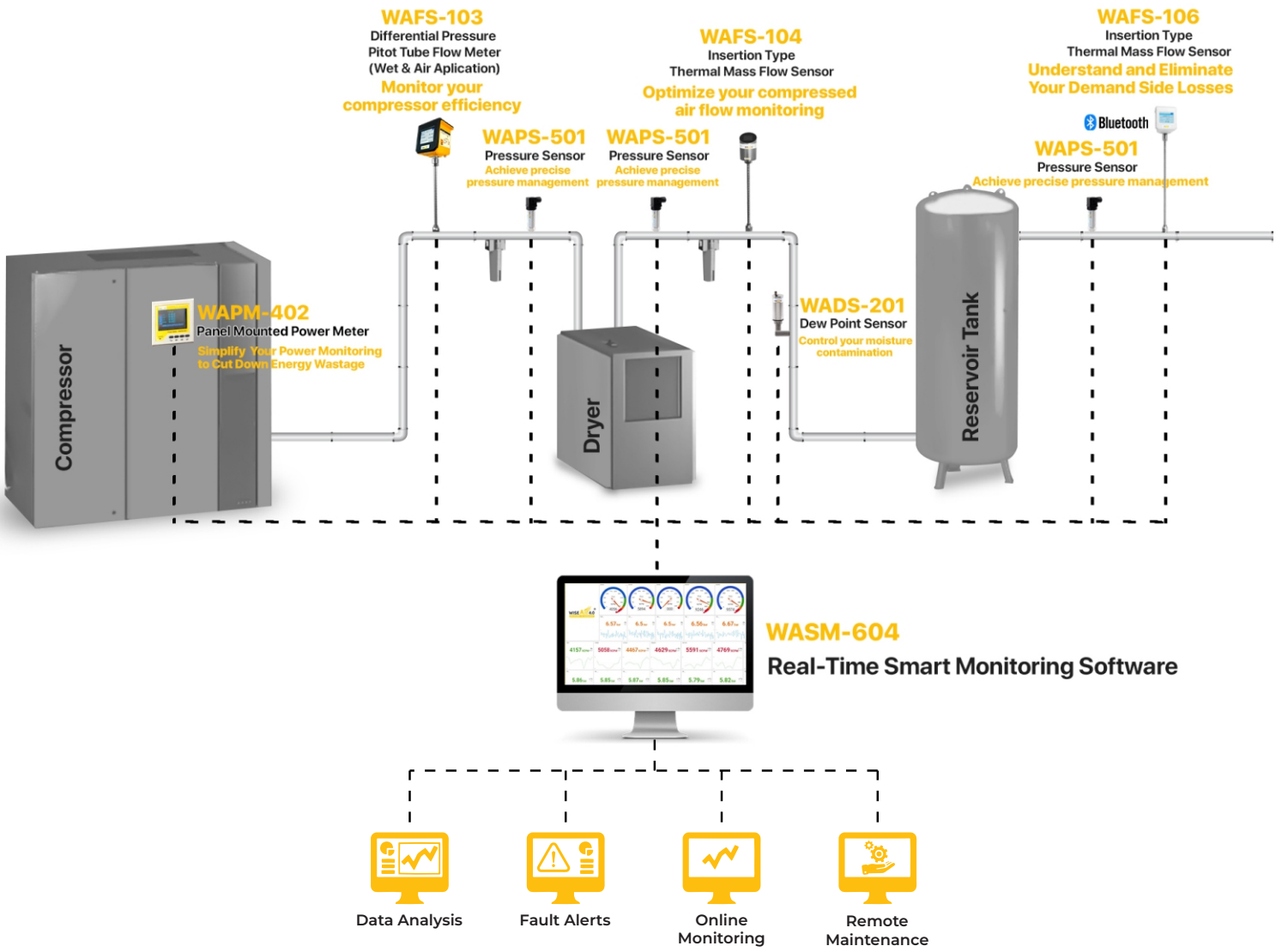
- **Analogue :**



- **Modbus :**



INTRODUCING THE WASM-604
REAL-TIME SMART MONITORING SOFTWARE



Visualize Compressed Air Usage and Cost

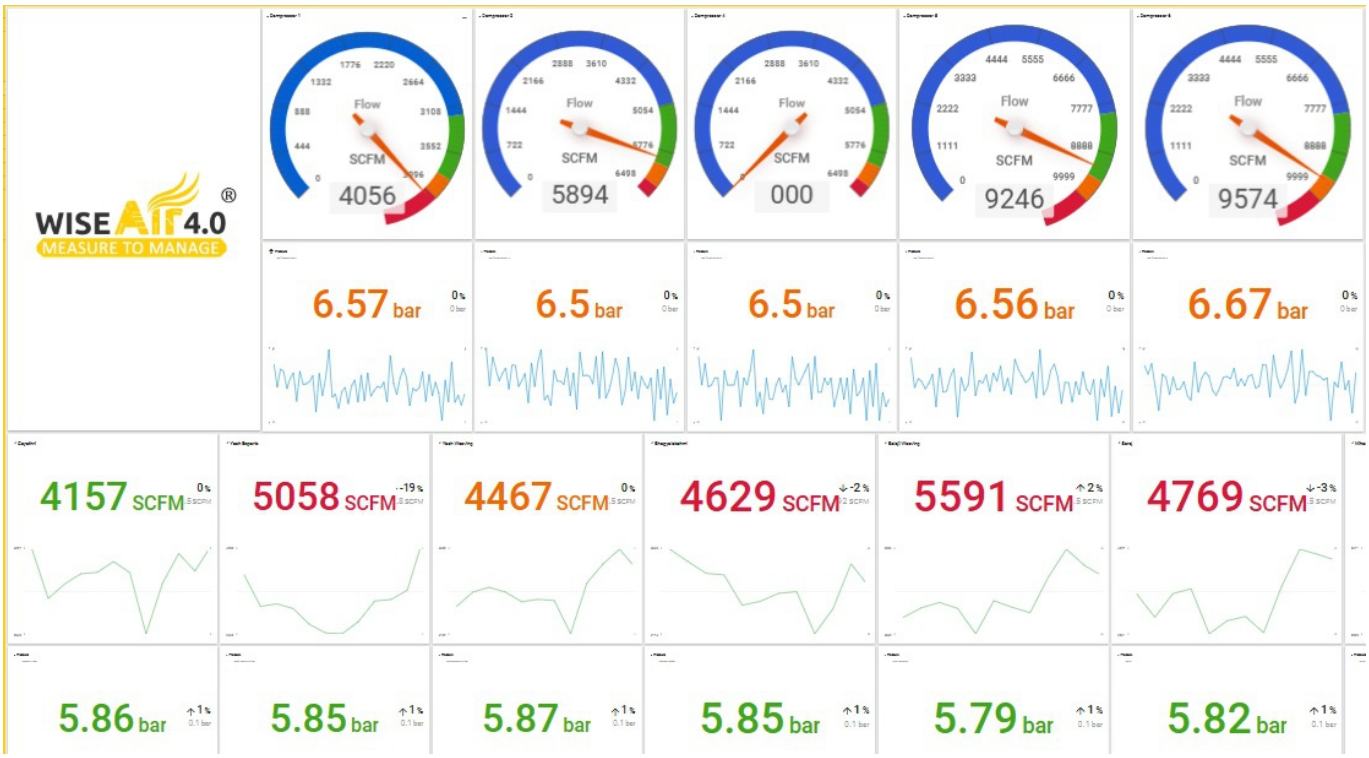
WASM is an advanced web based software tool for compressed air energy management that enables a systematic approach towards improvements in energy efficiency and the reduction of energy costs. WASM web software with event monitoring fully complies with the ISO 50001 standard requirements.

Monitor Real-Time Energy Consumption

WASM can connect to any compressed air system using data loggers or OPC software to connect to existing PLC system. System is designed to collect data with 30 secs sampling rate to be able to do simulations and detail analysis. In WASM you can see all process data and energy consumption at any time, compare it with historical data and predict your future needs.

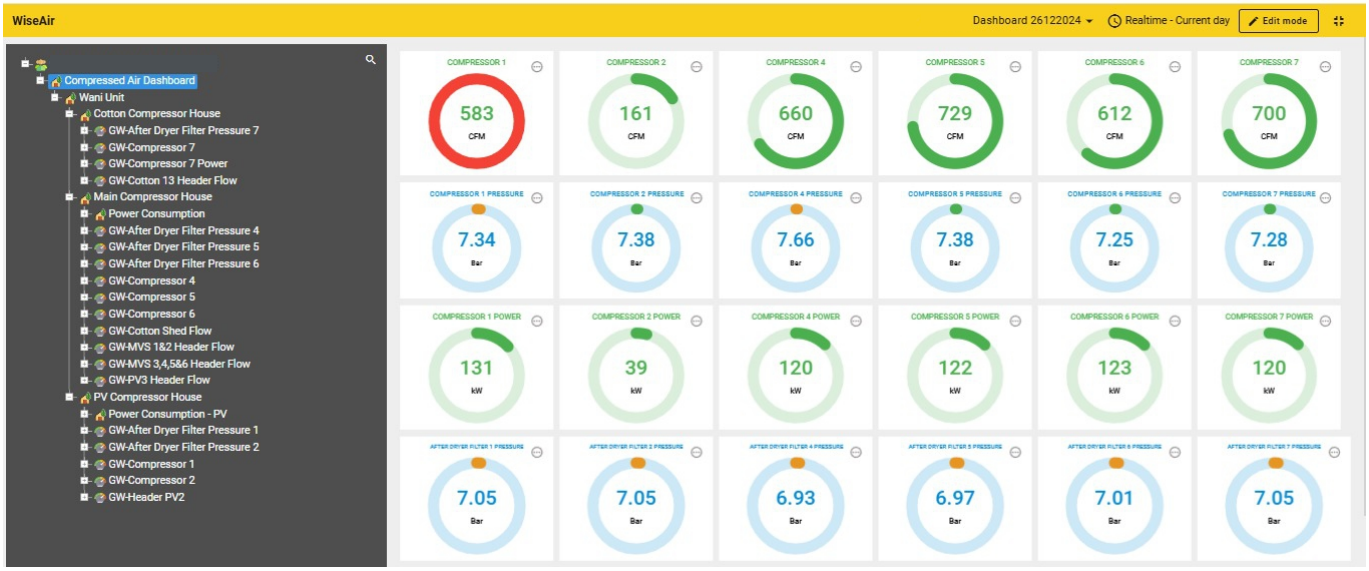
Compare to the Best in Class

WASM is designed to let you know anytime where you are in terms of CAS KPIs. WASMis collecting tons of data with real time calculation of KPIs and comparing to the best in class system at working conditions.



Analyse and Report

WASM offer auto and manual detail analyses and alarms for unexpected trips and energy consumption. System is based on pre-defined KPI-Key Performance Indicators and Trend-lines as per CSA 837. System will send relevant person Reports via E-mail.



Ordering Code

- **WASM-604**

  WASM-604 Cloud Subscription

INTRODUCING THE WA-EUS-720 ULTRASONIC LEAK DETECTOR

Key Features

- 2.5”LCD display with bar graph.
- 20 kHz to 90 kHz frequency range: optimal range for detecting a variety of leakage events.
- Three filters to remove main noise frequencies in noisy environments.
- Adjustable Receiver sensitivity and Three Transmitter signal strengths for accurate leak pinpointing.
- Quality Noise Cancellation headphones (Optional) to help identify the source of the leak.
- Parabolic Dish to direct the ultrasound towards the sensor.
- Detachable Tubular Extension provides additional reach in hard to reach areas.

THE ULTIMATE TOOL FOR LEAK DETECTION IN COMPRESSED AIR & INERT GASES

WA-EUS-720 is Ideal for Inspecting

- Leaks of Compressed air or other gases*
- Plumbing
- Electrical and mechanical systems
- Valves, tanks and pipes· Heat exchangers, boilers and condensers
- Air conditioning and refrigeration systems
- Motors and machinery

* Do not use WA-EUS-720 for combustible gas leak detection.
WA-EUS-720 can be used for propane and methane gas leak detection.

Find Leaks Even in Noisy Environment

In some situations, there might be strong ultrasonic noise generated by running machinery, motion sensors or other equipment. This noise will cause the Receiver to read the maximum signal strength of this noise interference on the display regardless of the sensitivity settings and make it unusable for detecting leaks. The Filter function was designed for these situations. Simply press the Filter button and the Receiver will automatically detect and filter out up to three main noise frequencies.

Visual and Audible Leak Pinpointing

While scanning a target area with the Receiver's ultrasonic microphone the displayed bar graph will indicate proximity to the source of the leak. Plug the headphones into the Receiver to audibly hear the leak and verify its source. For example, air leaks will produce more of a hissing sound while electric discharge manifests in a ticking sound.

Technical Data Sheet

	WA-EUS-720 (Only Receiver)	WA-EUS-730 (Receiver + Transmitter)
Sensitivity Adjustment	Available	Available
Volume Adjustment	Available	Available
Signal Level Adjustment	Available	Available
Transmitter	Available	-
Earphone Jack (3.5 mm)	Available	Available
Display Size	LCD 2.5 in (6.35 cm)	LCD 2.5 in (6.35 cm)
Display Dimensions	1.45 x 1.93 in (36.72 x 48.96 mm)	1.45 x 1.93 in (36.72 x 48.96 mm)
Display Resolution	240(RGB) x 320 pixels	240(RGB) x 320 pixels
Display Type	TFT-LCD (262 K)	TFT-LCD (262 K)
Display Color	True, 16bit/color	True, 16bit/color
Frequency Range	20 kHz to 90 kHz	20 kHz to 90 kHz
Filter	±5 KHz of main noise frequency, up to three filters	±5 KHz of main noise frequency, up to three filters
Power Supply	4 x 1.5 V AA (LR6) alkaline batteries	4 x 1.5 V AA (LR6) alkaline batteries
Power Consumption (typical)	75 mA	75 mA
Battery Life (typical)	105 hours	105 hours
Low battery indication	Available	Available
Weight	0.518 lb (0.235 kg)	0.518 lb (0.235 kg)
Dimensions	7.547 x 2.984 x 1.791 in (183 x 75 x 43 mm	7.547 x 2.984 x 1.791 in (183 x 75 x 43 mm
APO function	60 minutes when in idle	
Operating Temperature	-20 °C to 50 °C	
Storage Temperature	-20 °C to 70 °C	
Operating Humidity	<80% RH	
Pollution Degree	2	
Protection	IP-40	
Certifications	CE	
Electromagnetic Compatibility (EMC)	EN 61326-1 Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) [1] Electromagnetic Compatibility (EMC) [1] This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business	

INTRODUCING THE WAM – MAGNETIC SMART DRAIN
ZERO AIR LOSS TECHNOLOGY

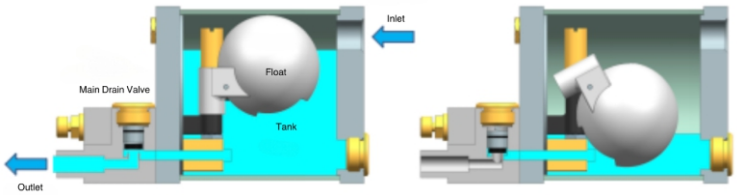
Key Features

- Energy Efficiency: No external power requirement, ensuring eco- friendly operation.
- Outdoor Compatibility: Rugged design alows for external deployment.
- Zero Air-Loss: Drains only when necessary, conserving valuable compressed air.
- Explosion Proof: Suitable for hazardous environments, enhancing safety.
- Manual Testing Option: Enables user-initiated operation checks.
- Strainer Inclusion: Prevents blockage, maintaining unimpeded flow.
- Anti-Freezing Mechanism: Optional heating bar for operation ni cold climates.

Design Excellence

The WAM Series Drain Valves are engineered with a precision float ball system. This float is pneumatically actuated, responding to liquid level changes to activate the pneumatic main drain valve automatically. This allows for real-time, demand-based draining, making the WAM Series suitable for use in high-risk environments where only compressed air drainage is utilized.

Intelligent Drain Mechanism



Versatility and Safety

Designed to cater to a broad spectrum of requirements, the M Series offers solutions for systems with substantial condensate loads, managed by an external air source. This versatility ensures a fit-for-purpose approach for diverse user needs.

Testing and Reliability

Undergoing rigorous validation, the M Series has been subjected to four critical tests:

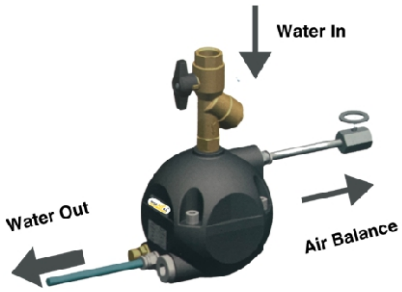
- Pressure Test: Verifies structural integrity under operational pressures.
- Flow Test: Ensures optimal flow rates for efficient condensate drainage.
- Impurity Test: Confirms the valve's capability to handle contaminants within the condensate.
- Life-time Test: Assesses durability, promising longevity and sustained performance.

WAM Series Drain Valves are a testament to sophisticated design and operational excellence. These valves are not just components; they are a comprehensive solution for maintaining the efficacy and quality of compressed air systems, reflecting the unparalleled standards that WiseAir embodies.

Technical Data Sheet

Ordering Code	WAM - 80	WAM - 800	WAM - 1800
Features	Zero Air-Loss, No Power Required		
Application	Filet, Refrigeration Dryer, Air Tank		
Rated Working Pressure	0-1.6 Mpa		
Ultimate Discharge Volume	80 L/H	425 L/h	850 L/h
Medium Temperature Range	1-60°C		
Ambient Temperature Range	1-60°C (Heating bar Optional for sub-zero temperatures)		
Inlet	3 x G1/2"	2 x G1/2"	2 x G1/2"
Outlet	Ø8 (G1/4")	Ø10 (G1/4")	Ø10 (G1/4")
Poor of Air Balance Pipe	G1/4"		
Discharge Valve Tyre	Magnetic Valve	Pneumatic Valve	Pneumatic Valve
Front Mesh Strainer	Yes (Outer Set)	Yes (Inner Set)	
Housing Material	Aluminium	Aluminium and Translucent Composite	
Manual Function	Yes		
Protection Class	IP68	-	-
Dimesions (L X W X H)	129 X 110 X 122 mm	200 X 110 X 110 mm	235 X 140 X 140 mm
Net Weight	1.3 Kg	2.5 Kg	4.1 Kg

Installation Guide



Top Inlet

Side Inlet

Maintenance Procedure

Test the Functioning

Press the Button to Manually Drain the Condensate

Clean the Magic Drain Valve

1 - Isolate Air Source
2 - Manual Press to Release Pressure
3 - Clean the Strainer
4 - Clean the Filter

INTRODUCING THE WAL – ELECTRONIC ZERO AIR LOSS DRAIN
ZERO AIR LOSS TECHNOLOGY

Intelligent Drain Mechanism

Fig. 2 - When Condensate Level is High

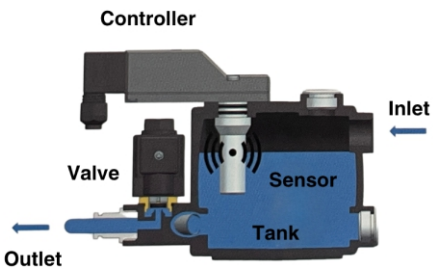
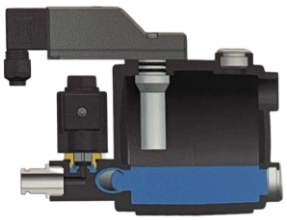


Fig. 2 - When Condensate Level is Low



The WAL Series Smart Zero Air Loss Drain by WiseAir Technologies represents a significant leap forward in the management of condensate water within compressed air systems. Our Smart Drain is a sophisticated, electronically controlled zero air-loss drain designed to maintain the quality of compressed air by timely discharging condensate laden with oil and impurities.

Embracing the innovative CPU control system, the WiseAir Technologies WAL Series Smart Drain ensures effective and efficient condensate discharge aligned with actual demand, thereby eliminating any needless air loss and promoting energy conservation. The WAL Series moves beyond traditional drain design, eschewing complex internal
mechanisms for a sleek, modular structure that replaces the old with the new. This eliminates the dependency on external power in idle periods, thereby safeguarding the system and reducing operational costs.

WiseAir Technologies has meticulously assembled this Smart Drain to be devoid of
complicated sensors and valves, offering an intuitive and maintenance-friendly experience. Our commitment to quality is evident as the Smart Drain undergoes rigorous validation
across a range of conditions to guarantee superior functionality and longevity.

Key Features

- Smart Control: CPU-based operation adapts to real-time condensate levels.
- Modular Design: Simplifies maintenance and promotes system longevity.
- Energy Efficiency: Operates without power in standby mode, reducing energy consumption.
- Transparency: Translucent housing for easy monitoring of condensate levels.
- Alarm System: LED display and alarm signals for operational anomalies.
- Robust Construction: Built to prevent clogs and ensure continuous flow.
- Customizable Options: Supports excessive volume and high-pressure applications with optional stainless steel products.
- Frost Protection: Optional heating for reliable operation in cold environments.

Technical Data Sheet

Ordering Code	WAL - H	WAL - I	WAL - J	WAL - K
Applications	Small Water Volume such as Filters and Small Sized Dryer	General Purpose such as Water Separators, Air Receivers, Refrigeration Air	General Purpose such as Chillers, Water Separators, Air Receivers, Refrigeration Dryer	Large Water Volumes
Working Pressure	0-16 Bar	0-16 Bar	0-16 Bar	0-16 Bar
Max Discharge Volume	12 L/H	65 L/H	90 L/H	240 L/H
Recommended Compressor Capacity	10 M^3/Min	50 M^3/Min	100 M^3/Min	200 M^3/Min
Recommended Dryer Capacity	20 M^3/Min	100 M^3/Min	200 M^3/Min	400 M^3/Min
Recommended Filter Capacity	100 M^3/Min	500 M^3/Min	1000 M^3/Min	2000 M^3/Min
Applicable Media	Water, Oil Containing Condensate			
Temp. of Medium	1 to 60°C	1 to 60°C	1 to 60°C	1 to 60°C
Ambient Temperature	Up to 60°C	Up to 60°C	Up to 60°C	Up to 60°C
Inlet	3 x 1/2	3 x 1/2	3 x 1/2	3 x 1/2
Outlet	Dia 8 (G1/4)	Dia 10 (G1/4)	Dia 10 (G1/4)	Dia 12 (G1/4)
Material of Housing	Aluminium	Aluminium	Aluminium	Translucent Composite
Supply Voltage Options	24VAC/DC, 110VAC, 220VAC			
Alarm Functions	Two Kinds of Alarm Contacts of Normal Open (Switch On When Alarm) Normally Closed (Switch Off When Alarm) are available at the same time.			
Load of Alarm Contacts	Max 62.5VA for alternating current, Max 60W for direct current			
Manual Functions	Yes	Yes	Yes	Yes
Protective Class	IP65	IP65	IP65	IP65
Dimensions (L X W X H)	90 X 79 X 124 mm	177 X 110 X 147 mm	207 X 110 X 147 mm	186 X 110 X 238 mm
Net weight	0.6 Kg	2.2 Kg	2.5 Kg	2.8 Kg

For More Info
SCAN HERE

UNDERSTAND COMPRESSED AIR SYSTEM DYNAMIC WITH OUR ADVANCED MEASUREMENT SOLUTIONS

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MEASURE TO MANAGE

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