



WAFS - 104
Thermal Mass Flow Sensor

Compressed Air Energy Saving Solutions

Smart Measurement Technology That You Can Trust



For More Info
SCAN HERE

About Us

At WiseAir Technologies, our mission is to empower industries with innovative and advanced measurement solutions for compressed air and gases. With over 20 years of expertise in the field of compressed air management, we have developed smart, reliable, and state-of-the-art products that are both accurate and easy to use. Our focus is on incorporating cutting-edge technologies like M2M communication and the Industrial Internet of Things (IIoT) to bring increased automation, improved communication, and self-monitoring to industrial processes.

Our WA range of smart IIoT sensors can be easily integrated into existing manufacturing and energy management software to enhance data collection, exchange, and analysis for improved productivity and efficiency.

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 and 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.

Connect with Our Expert Product Specialists to Learn How Your Factory Can Begin to Realize Energy and Cost Savings with Our Advanced Solutions.

Call Us

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Europe : **+45 36 99 04 22**

Email Us

Asia : **info@wiseair.asia**
Europe : **info@wiseair.asia**

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.

Energy Costs



Capital Costs



Maintenance Costs





WAFS - 104

Full Digital Signal Processing for Higher Precision and Better Stability

Key Features :

- 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.



Colour graphic display for online values and sensor setting

Technical Data

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 ₂ O), 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
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Display

Display	1.5" LCD with Capacitive Touch Panel
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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

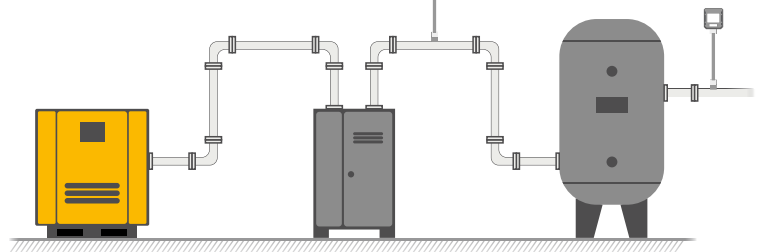
Casing	Aluminium
Process Conn	G1/2" (ISO 228-1)
EMC	According to IEC 61326-1

Correct Installation



Supply Side
- Wet air
- High velocity

Demand Side
- Dry air
- Low to medium velocity



Flow Range WAFS - 104

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 Codes

- **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**

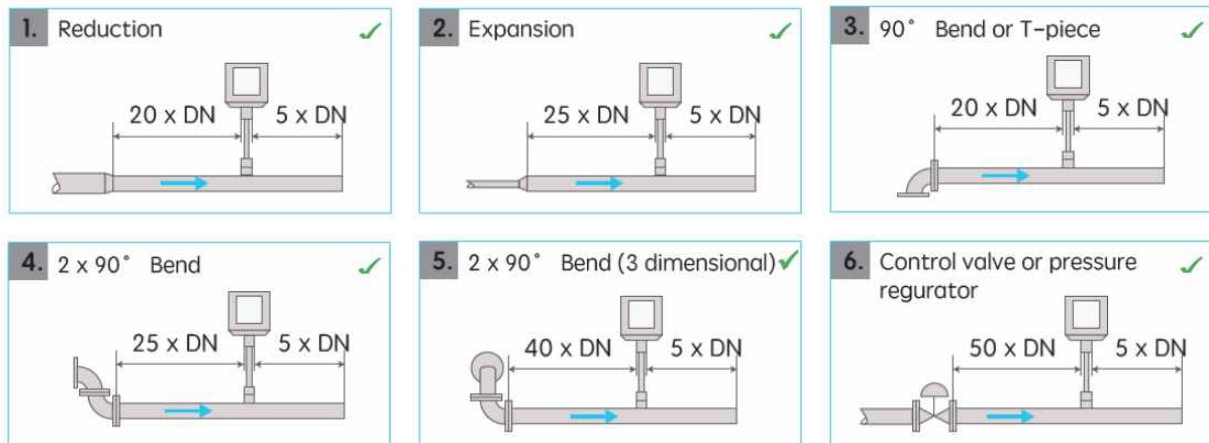
Thermal Mass Flow Sensor Insertion Type 400mm Shaft, measuring range 0..250 Nm/s, 1.5" display with Capacitive Touch Panel

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



Understand Compressed Air System Dynamics with Our Advanced Measurement Solutions

Measure - Manage - Save - Sustain

Our Network



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