



WAFS - 107
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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Email Us

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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.

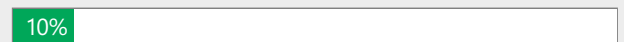
Energy Costs



Capital Costs



Maintenance Costs




 Bluetooth®

(Inline Type Sensor)

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 2.8" 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.
- 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

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
Wireless	Bluetooth (Standard), Lora (Option)
Connector	2 x 5 - pin M12, Female

Power Supply

Input	18 to 30V / 5W
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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

Flow Range WAFS - 107

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.
- Determination of Gas Leakage / Leakage Rate.
- Gas Consumption Measurement of a Single Machine / Plant
- Process Gas Measurement, such as Nitrogen, Carbon Dioxide, Oxygen, etc

Ordering Codes

- **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"

Understand Compressed Air System Dynamics with Our Advanced Measurement Solutions

Measure - Manage - Save - Sustain

Our Network



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