WISE AIR 4.0®

MEASURE TO MANAGE

WUFS 901
ULTRASONIC FLOW METER

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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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

Introduction

Introducing our cutting-edge Wall-Mount Ultrasonic Flow Meter - the WUFS 901. Utilising transfer time technology, this innovative flow meter is designed with an FPGA chip and low-voltage broadband pulse transmission. It comes with the flexibility of both Clamp-On and Insertion type sensors, enabling you to choose the best option for your application.

The WUFS 901 features a 240*128 backlit LCD display with a user-friendly menu selection and 4-line display. The totalized flow can be measured on a daily, monthly, and yearly basis. Additionally, it offers parallel operation of positive, negative, and net flow totalises with a scale factor (span) and BTU capacity. The totalise pulse and frequency output are transmitted via relay and open collector.

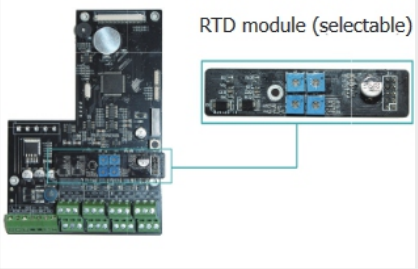
glued transducers


normal temp. transducer TT01


high temp. transducer TT03

- 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.

PT1000 temperature sensor



- With the option to use it in conjunction with the RTD module and the PT1000 temperature sensor, the WUFS 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!

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Specification

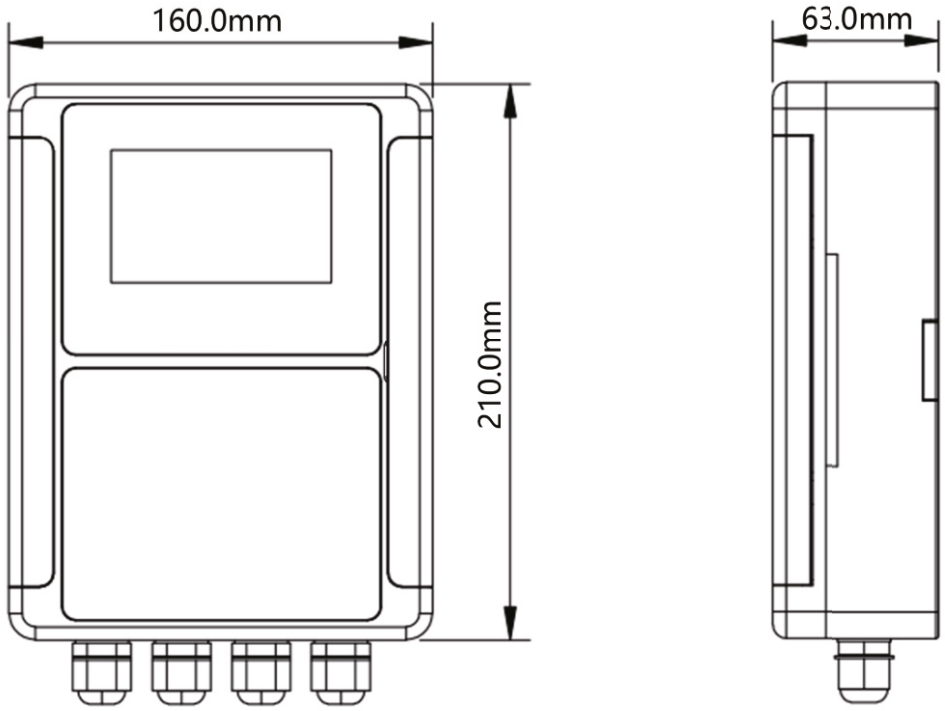
Performance	
Flow range	±0.09ft/s ~ ±39ft/s (±0.03m/s ~ ±12m/s)
Accuracy	±1% of measured value
Repeatability	0.2% of measured value
Linearity	±1%
Pipe size	DN25mm~DN1200mm DN15~DN40mm (A pair of sensors)

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℉~140℉(-20℃~60℃) Transducer:-40℉~176℉(-40℃~80℃,TT01, TT02) Transducer:-40℉~266℉(-40℃~130℃,TT03)
Humidity	Up to 99% RH,non-condensing

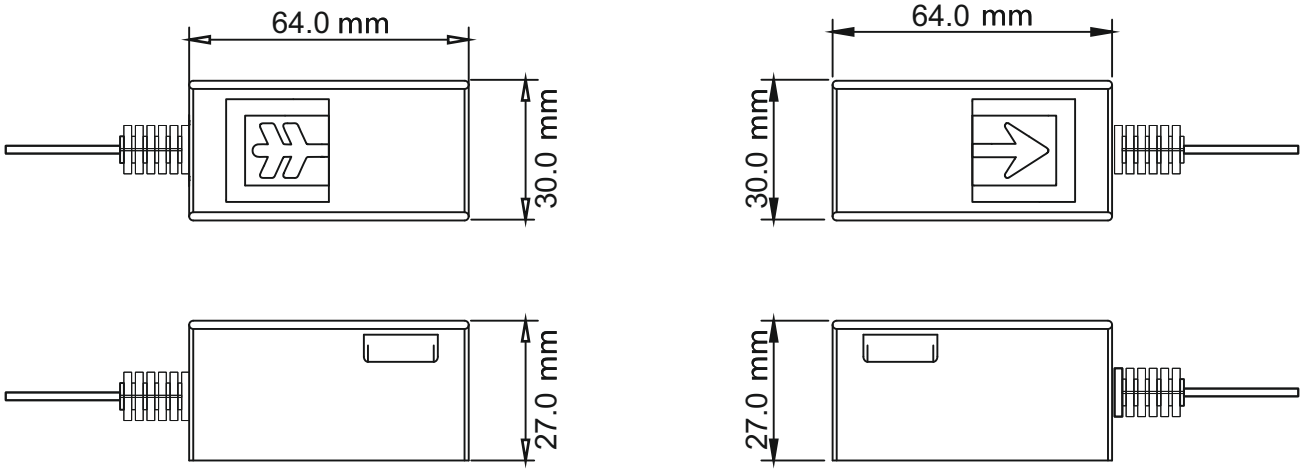
Physical	
Transmitter	PC/ABS,IP65
Transducer	Encapsulated design,IP68 Double-shielded transducer cable Standard/maximum cable length:30ft/1000ft(9m/300m)

Product Size

Transmitter size

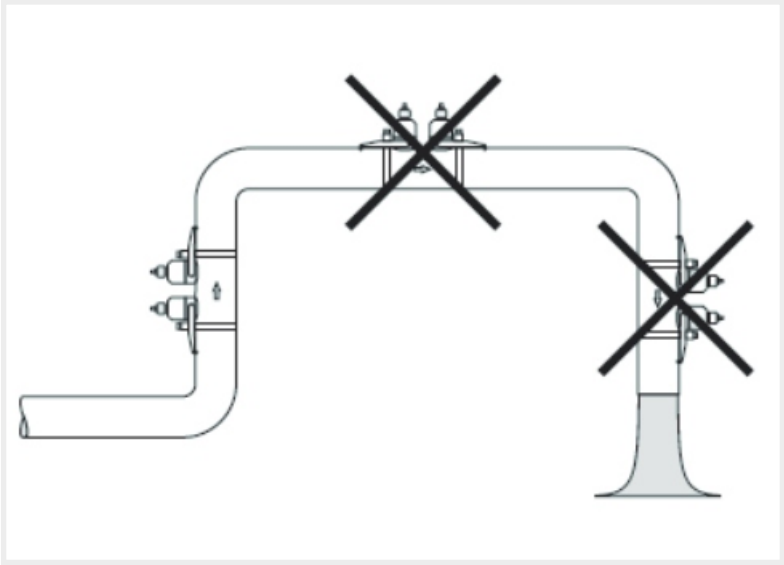


Transducer size

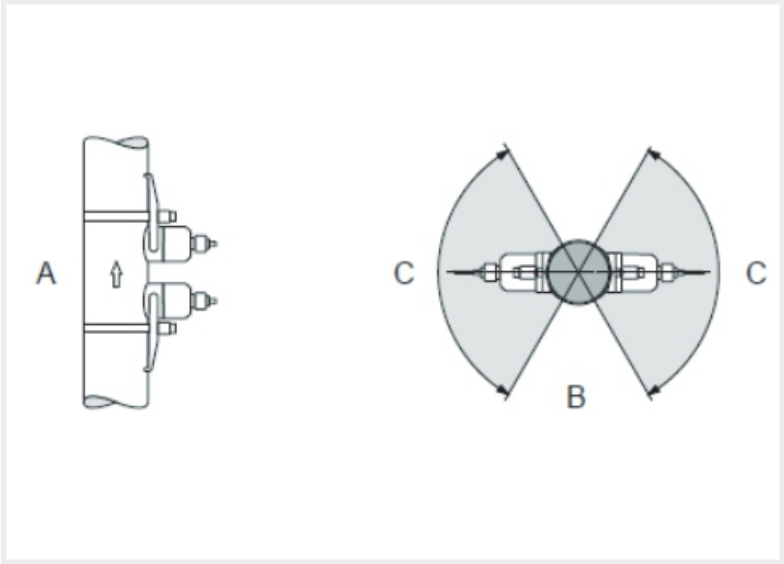


Installation site selection

The first condition for ultrasonic flow meter is the pipe must be full of liquid, the bubbles will greatly influence the accuracy of the measurement, please avoid the follow installation position:



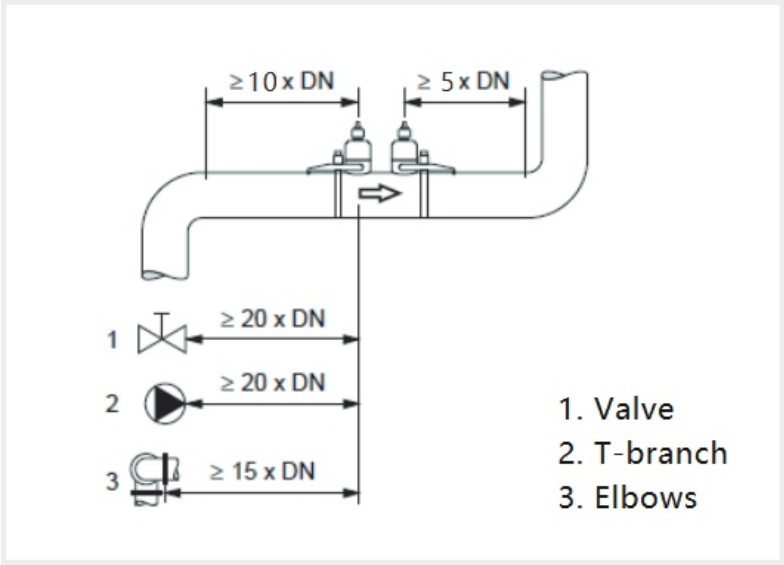
The suggestion installation area is as following:



- A is for upright pipeline, please notice the water direction is from the bottom to top.
- B is for horizontal pipeline, the transducers need to be installed inside the C area, angle for area C, max 120°.

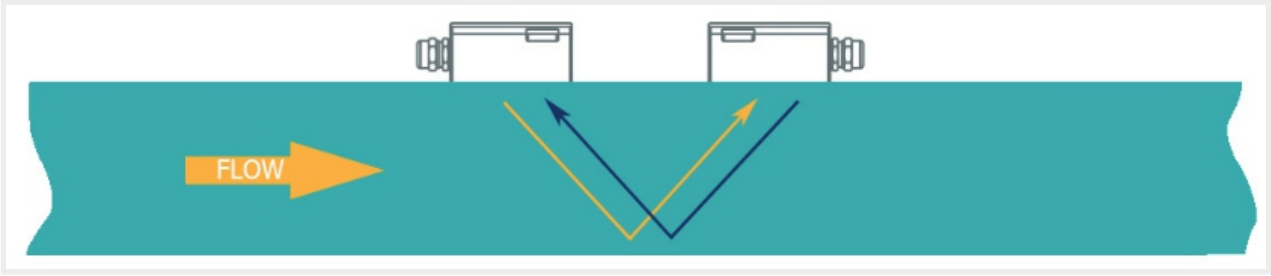
Straight pipe demand

We suggest avoiding the valve, T-branchpipe and elbows if the condition allow. Please satisfied the hardest position installation requirements when you face more than one interfering resource.



Measuring principle

Transfer time technical means the ultrasonic signal from the transducer is transmitted and received through the moving liquid, there will be a difference between the upstream and downstream transit time, which can be used to calculate flow and velocity.



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Model	Transmitter
WUFS - 901	Ultrasonic Flow Meter (wall-mount type) Flow range : ±0.09ft/s ~ ±39ft/s (±0.03m/s ~ ±12m/s) Accuracy : ±1% of the measure value Repeatability : 0.2% of the measure value Display : 240*128 backlit LCD Power supply : 10~36VDC/AC90~245V Transmitter enclosure : IP65, PC+ABS (Temperature: -20°C~50°C) Output : OCT pulse output 0-10KHz, Relay output, 4-20mA optional Communication : RS232/RS485, Modbus Protocol Cable Length : 30 Feet (Standard)

Code	Transducer
GAC 11	Transducer Cable Pair for Pipe Ranges from DN 15-100mm including 5 Mtr Cable and Metal Stretcher
GAC 12	Transducer Cable Pair for Pipe Ranges from DN 50-700mm including 5 Mtr Cable and Metal Stretcher
GAC 13	Transducer Cable Pair for Pipe Ranges from DN 300-600mm including 5 Mtr Cable and Metal Stretcher

Optional Transducers（DN25-DN1200mm）

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

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

Optional Transducers（DN25-DN1200mm）

(Operating temperature：Within 70 °C)

Double guide bracket

Understand Compressed Air System Dynamics with Our Advanced Measurement Solutions

Measure - Manage - Save - Sustain

Our Network

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