

COMPRESSED AIR ENERGY SAVING SOLUTIONS

GENERAL CATALOG



WISE Air 4.0[®]

MEASUREMENT SOLUTIONS:

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



Leaks Pro[™]
Professional Leakage Management Solutions

LEAKAGE MANAGEMENT SOLUTIONS

- Dynamic Noise Discrimination Leak Detectors
- Leakage Management Softwares
- Dual Seal Push Fit Connectors
- High Resistant Polyurethane Tubes
- Variable Air Flow Gun



System[®]

COMPRESSED AIR MANAGEMENT SERVICES

- Audits & Measurements
- Leak Detections & Repairs
- Air Quality Testing
- Compressed Air Training
- Project Management
- Performance Validations of Compressors, Dryers & Filtration Systems

Asia Regional Office

System Business Centre, #12 Sri Venkatalakshmi Nagar
Singanallur, Coimbatore - 641005, India
Tel. +91 - 422- 4395471/2 Email. info@system.asia

Europe Regional Office

Pilestræde 58, 1112 Copenhagen
Denmark. Ph : +45 36990422
Info.eu@system.asia

COMPRESSED AIR

A Gold Mine We Will Help You Dig



Being the fourth most important utility in numerous industries, how well you manage the consumption of compressed air can decide the fate of your business. This utility that makes several industries run happens to be among the costliest ones too. However, compressed air might not be as expensive as its mismanagement can make it. Many manufacturing industries around the world spend more than needed on compressed air only because they are using the inefficient equipment. On top of that, maintenance service providers can often deliver less desirable services that add to your costs in the long term.

This practice has become a trend and while most customers are knowledgeable about the use of compressed air and its equipment, they might not be aware of the certifying standards or minimum accepted performance level of various compressed air systems. Such lack of information tricks them into buying inefficient equipment and receiving service packages that only make matters worse. There had to be someone who would change things for customers and side with them. Hidhay did it.

Founder

Hiday is a compressed air specialist who has the in-depth knowledge of the compressed air industry. He founded the Systemel Group, and with his passion and dedication to the industry and his company, he has made it one of the best in Asia and Europe.

Experience of the Company

Founded in 2002, Systemel Group has been serving its customers for more than 17 years now. It all started in Coimbatore, India with a vision of bringing clarity, efficiency and improvement to the then conditions of the compressed air systems. During these years, the company has served a variety of industries from food processing and Iron & Steel to automotive and Textile. In short, we have made things better for our customers anywhere where compressed air serves crucially for their production and manufacturing processes.

We have also been proudly awarded ISO 9001-2008 for our quality process with UKAS Standards. Today, we serve Asia and Europe in the following regions and are expecting to be in more parts of the world with our group companies

- Systemel Technologies Europe ApS, Denmark
- Systemel Energy Solutions (India) Pvt. Ltd, India
- Systemel Engineering Controls, India



Asia Regional Office

Systemel Business Centre, #12 Sri Venkatalakshmi Nagar
Singanallur, Coimbatore - 641005, India
Tel. +91 - 422- 4395471/2 Email. info@systemel.asia

Europe Regional Office

Pilestraede 58, 1112 Copenhagen
Denmark. Ph : +45 36990422
Info.eu@systemel.asia

Measurements

WAFS - 103 Differential Pressure Pitot Tube Flow Meter



Specially Designed with Patented Anti Condensation Technology

Key Features :

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



Colour graphic display for online values and sensor settings

Technical data WAFS 103

Measuring Range	
Flow	10..300 Nm/s
Pressure	0 to 16 Bar
Temperature	-40°C to +200°C / -40°C to +392°C
Ambient Temperature	-20°C to + 60°C
Process Medium	Air, Argon, Carbon Dioxide, Helium, Hydrogen, Natural Gas, Nitrogen, Nitrous Oxide, Oxygen
Applications	Wet and Dry Air High Velocities

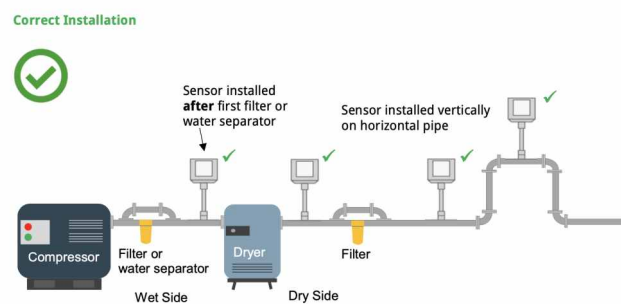
Accuracy	
Accuracy	Flow: ±(1% reading + 0.3% full scale)
	Pressure : ±0.5% Full Scale
	Temperature : 0.5°C

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

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

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

Other Informations	
Suitable for Pipe Sizes	DN 25 to DN 600
Available Shaft Lengths	250 mm & 400 mm
Electrical Connection	2 x 5 pin, M12, Female
Process Connection	ISO G1/2" Thread
Calibration Frequency	Every 2 Years



Measurements

WAFS - 103 Differential Pressure Pitot Tube Flow Meter

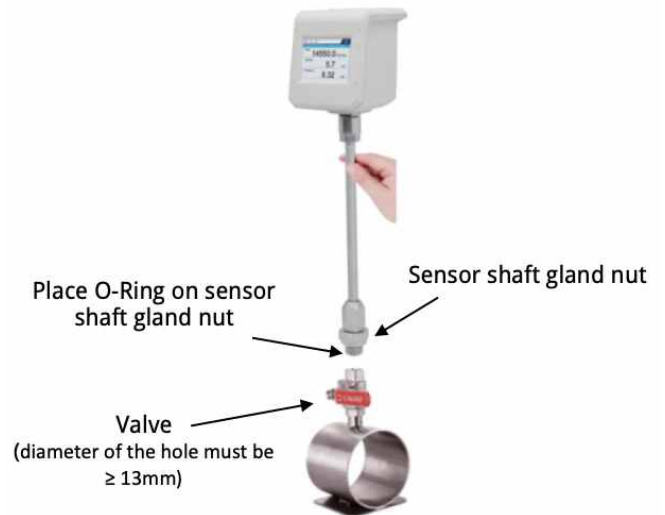
Flow Ranges

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

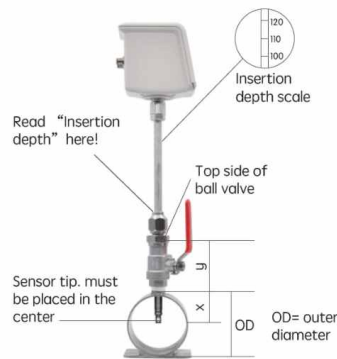
Ordering Codes

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

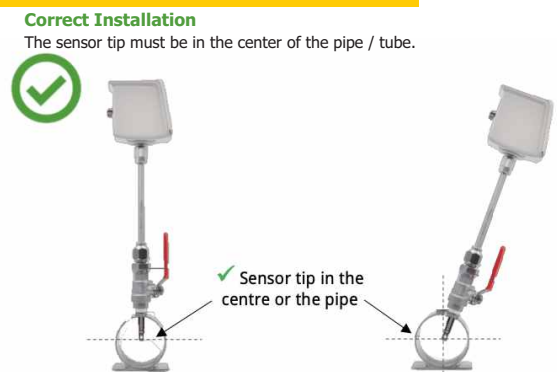
Installation Reference - 1



Installation Reference - 2



Installation Reference - 3



Correct Installation



DN = Pipe Diameter

- 1. Reduction** ✓
20 x DN (upstream) | 5 x DN (downstream)
- 2. Expansion** ✓
25 x DN (upstream) | 5 x DN (downstream)
- 3. 90° Bend or T-piece** ✓
20 x DN (upstream) | 5 x DN (downstream)
- 4. 2 x 90° Bend** ✓
25 x DN (upstream) | 5 x DN (downstream)
- 5. 2 x 90° Bend (3 dimensional)** ✓
40 x DN (upstream) | 5 x DN (downstream)
- 6. Control valve or pressure regulator** ✓
50 x DN (upstream) | 5 x DN (downstream)