COMPRESSED AIR ENERGY SAVING SOLUTIONS

GENERAL CATALOG

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

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

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

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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**

Hidhay is a compressed air specialist who has the in-depth knowledge of the compressed air industry. He founded the Systel 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, Systel 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:
- Systel Technologies Europe ApS, Denmark
- Systel Energy Solutions (India) Pvt. Ltd, India
- Systel Engineering Controls, India
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)

Technical data WAFS 103

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

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

Correct Installation

- Sensor installed after first filter or water separator
- Sensor installed vertically on horizontal pipe

Colour graphic display for online values and sensor settings
Measurements

**WAFS - 103 Differential Pressure Pitot Tube Flow Meter**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Flow Range (Nm³/h)</th>
<th>Flow Range (cfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>530</td>
</tr>
<tr>
<td>1 ¾</td>
<td>32</td>
<td>14.5</td>
</tr>
<tr>
<td>1 ½</td>
<td>40</td>
<td>22.6</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>35.3</td>
</tr>
<tr>
<td>2 ½</td>
<td>65</td>
<td>59.7</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>90.5</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>141.4</td>
</tr>
<tr>
<td>5</td>
<td>125</td>
<td>220.9</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
<td>318.1</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
<td>565.5</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>883.6</td>
</tr>
<tr>
<td>12</td>
<td>300</td>
<td>1272.3</td>
</tr>
</tbody>
</table>

**Flow Ranges**

**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**

- Place O-Ring on sensor shaft gland nut
- Valve (diameter of the hole must be ≥ 13mm)

**Installation Reference - 2**

- The sensor tip must be in the center of the pipe / tube.

**Installation Reference - 3**

- Sensor tip in the center or the pipe

**Correct Installation**

1. Reduction
2. Expansion
3. 90° Bend or T-piece
4. 2 x 90° Bend
5. 2 x 90° Bend (3 dimensional)
6. Control valve or pressure regulator

**DN = Pipe Diameter**