WISE AIR 4.0®
MEASURE TO MANAGE

Company & Product Overview

2026–27 Edition



Smart Measurement Solutions for Compressed Air and Gases

Flow · Dew Point · Pressure · Power · Leak Detection · Condensate Management · WASM-604 IIoT Software

The WA-Series Portfolio



Flow



Dew Point



Pressure



Power



Drains



Smart Drains

Redefining Compressed Air & Gas Management

WiseAir Technologies engineers smart measurement solutions for compressed air and industrial gases. Our WA-series sensors and WASM software connect to existing plant systems to give real-time insight, sustainable savings and measurable ROI.

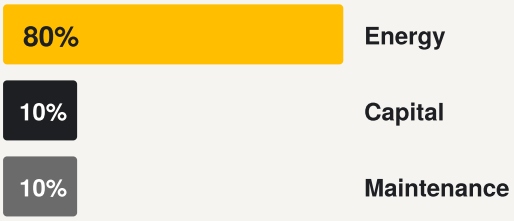
WiseAir is the technology arm of the Systel Group, Coimbatore, alongside Systel Energy Solutions (audits and digitization) and Systel Engineering Controls (pneumatics). Audit, instrument, monitor and fix: one group covers the whole journey.

Since 2002
Compressed air expertise in the group

500+
Manufacturers served

Up to 30%
Compressed air energy savings

Understand the True Cost of Compressed Air



Share of a compressor's life-cycle cost. Compressed air is typically 10–30% of a plant's power, and the least-measured utility on site.

What you can't measure, you can't manage.

1. **Hidden leaks waste up to 30% of generated air**, silent under plant noise, 24 hours a day.
2. **Over-set pressure burns energy every hour.** Each extra bar costs about 7% more.
3. **Missing data means missed savings.** No kW/CFM, no cost per machine.
4. **Reactive maintenance means downtime.** Wet air and trips found too late.

Why WiseAir

01 R&D Expertise
Developed with design and technology partners across North America, Europe and Asia.

02 Integrated Solutions
Flow, pressure, dew point, power, leaks, drains and software in one ecosystem.

03 Superior Performance
1:2500 turndown thermal mass, patented anti-condensation, MEMS dew point.

04 Exceptionally Economical
Accuracy at a fraction of global-brand prices. Works with any make of compressor.

Industries We Serve

Automotive | Textiles | Pharma | Food & beverage | Cement | Steel & foundry | Medical gas

The Right Flow Technology for Every Line

Four measuring principles cover wet air, dry air and gases, steam and liquids. Every meter is OEM-neutral, Modbus-ready and ships calibrated.



Wet Air · DP Pitot Tube

WAFS-103 / 103D

Velocity	5–300 Nm/s
Measures	Flow and pressure together
Reference	FAD, standard or normal flow
Feature	Patented anti-condensation, touch display
103D	Bi-directional



Dry Air and Gases · Thermal Mass

WAFS-104 / 106

Velocity	0.1–250 Nm/s
Turndown	1:2500, fully digital
Install	Hot-tap through a ½" ball valve
Shutdown	Not required
106	With data logger

Selection Guide

	Model	Principle and Medium	Key Data and Product Page	Scan
	**WAFS-103 / 103D**	DP Pitot tube · wet compressed air	5–300 Nm/s; flow and pressure; anti-condensation wiseair.in/pitot-tube-flow-sensor	
	**WAFS-104 / 106**	Insertion thermal mass · dry air and gases	0.1–250 Nm/s; 1:2500 turndown; hot-tap install wiseair.in/thermal-mass-flow-sensor	
	**WAFS-105 / 107**	Inline thermal mass · dry air and gases	Branch lines and point of use; 4–20 mA, pulse or Modbus wiseair.in/inline-mass-flow-sensor	
	**WAFS-108**	Compact inline thermal mass · dry air	Most economical; machine-level sub-metering wiseair.in/compact-air-flow-sensor	
	**WAFS-109** New	Explosion-proof thermal mass · process gases	Insertion and inline versions for hazardous areas wiseair.in/wafs-109-explosion-proof-thermal-mass-flow-sensor	
	**WAFS-1100 Series**	Vortex · gases, steam, liquids	Unaffected by contamination; lines to 40 bar wiseair.in/wafs-1102-vortex-flow-sensor	
	**WUFS-904**	Clamp-on ultrasonic · liquids	Pipes 32–6000 mm; bi-directional; no pipe cutting wiseair.in/ultra-sonic-flow-meter	
	**WUFS-905** New	Electromagnetic · water, conductive liquids	Plant water balance and utility monitoring wiseair.in/wufs-905-electro-magnetic-flow-meter	

Outputs
4–20 mA, pulse and RS-485 Modbus across the range.

Calibration
Factory calibrated. NABL certificate available as an option.

Connectivity
Reads straight into WASM-604 through the DCC-107 concentrator.

Dry Air, Right Pressure: Proven



WADS Series

Dew Point Sensors · 201 to 208

Dew point and pressure from one sensor. −60 to +60 °Ctd (option −80 to +20), 0–17 bar, accuracy to ±2 °Ctd.

Protected sensing element. Anti-condensation, particle, oil and chemical protection; up to 9-point calibration.

A model for every duty. 201–204 transmitters, including explosion-proof · 205 / 206 monitor with wall-mount display · 207 / 208 with built-in display.

wiseair.in/dew-point-measurement



WAPS-501 / 502

Pressure Sensors

Accurate and affordable. ±0.5% FS, all-stainless, IP67.

Pressure profile of the whole system. Compressor → dryer → filters → header → point of use.

FAD and gas metering. Pairs with flow sensors for O_2, N_2, CO_2, Ar and H_2.

wiseair.in/pressure-sensor

Know What Every Kilowatt Is Doing



WAPM-403 New

DIN-Rail Power Meter

Mounts inside the compressor panel or MCC. kW, kWh, PF, THD and harmonics; RS-485 Modbus, relay output.

wiseair.in/power-measurement



WAPM-402

Panel-Mount 96 × 96

Large colour display for the compressor-room wall or MCC door, with the same measurement set and Modbus map as the 403.

wiseair.in/power-meter



WAPM-4100 Coils

Flexible Rogowski

Clip around any cable or bus-bar. 80 to 300 mm loops, 100 A to 100 kA. No shutdown, no conductor break.

wiseair.in/power-measurement

Pair a WAPM on the feed with a WAFS on the discharge and WASM-604 shows kW per CFM for every compressor: the one number that tells you which machine to fix, which to lead and which to retire.

WAPM-401 Hand-Held

Portable power meter for audits and spot checks.

wiseair.in/hand-held-power-meter-wapm-401

What You Can't Hear Is Costing You



WA-EUS-750

Acoustic Leak Imager

136-element MEMS array to 100 kHz. The camera-style screen shows each leak with its rate and annual cost. One-handed, about 800 g; charges over USB Type-C.

wiseair.in/wa-eus-750-acoustic-leak-imager



WA-EUS-740

Handheld Detector

Compact, 20–90 kHz, bar-graph display and three noise filters. Runs on AAA batteries.

wiseair.in/wa-eus-740-leak-detector



WA-EUS-720 / 730

Detector + Transmitter

Receiver plus ultrasonic transmitter: test unpressurised vessels, seals and doors too.

wiseair.in/leak-detector

Survey → Costed Report → Work Order

Every leak tagged with location, size, CFM and rupees per year, then re-surveyed to prove the repair.

20–30%
Air lost to leaks, unmanaged

< 5%
Target after a leak programme

Drain the Water. Keep the Air



WAM Series

Magnetic · No Power Needed

Float-actuated, magnetically latched valve that runs on the air it protects. WAM-80 / 800 / 1800 for 80 to 850 L/h, 0–16 bar, IP68, outdoor-ready.

wiseair.in/wam-magnetic-smart-drain



WAL Series

Electronic · Level Sensing

Level-sensing controller adapts drain cycles to load, with LED status and alarm contacts into WASM-604. WAL-H / I / J / K for 12 to 240 L/h, 0–16 bar, IP65.

wiseair.in/wal-electronic-level-based-drain

≈ 4 CFM
Lost at every timer drain: about ₹41,000 of air a year

Zero
Air lost with WAM / WAL: the valve closes before air escapes

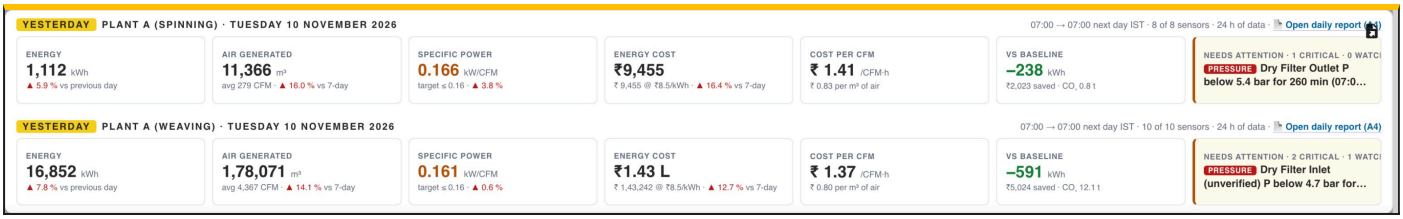
< 6 Months
Typical payback when replacing timer drains

WASM-604: Every Sensor, One Screen

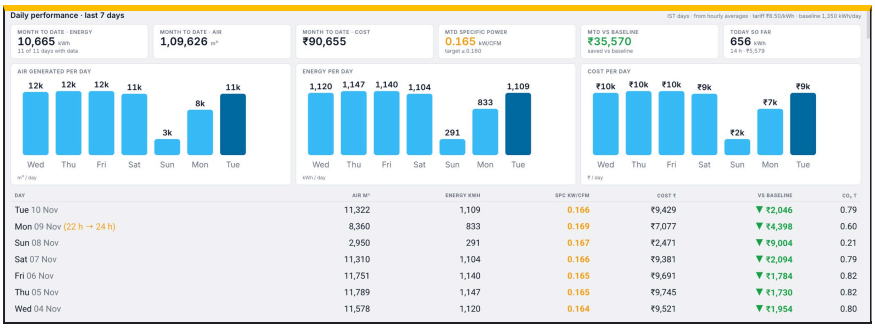
An IIoT platform built for compressed air, on the cloud or on-premise. It turns flow, power, pressure and dew point readings into cost, specific power and savings you can act on.



Live SCADA View. Compressor, dryer, filters, header and department branches, with an air balance of generated against metered flow.



Yesterday Strip. Energy, air, specific power, cost per CFM and savings against baseline for each unit, with the items that need attention.



Analytics and Trends. Month-to-date totals and day-by-day energy, air, specific power and cost.

From Sensor to Screen

DCC-107	Modbus data concentrator for the sensor network
WADL-301	Data logger and display with alarms
Wi-SUN Module	Self-healing wireless mesh, no new cable
WASM-601 / 602	Entry and mid-tier, single compressor room
WASM-604	Full SCADA, analytics and multi-site

Also on the platform: scorecard, action cards, anomaly detection, data explorer, daily A4 report by e-mail, SMS and e-mail alarms, role-based access.

WASM Software
wiseair.in/smart-monitoring-software

WADL-301 Data Logger
wiseair.in/wadl-301-data-logger

Screens captured from a live WASM-604 site in November 2026. Customer name withheld.

The WiseAir ROI: From Baseline to Optimised

Annual Realised Savings

₹ 2,76,864

One compressor, one site, on a live WASM-604 deployment, plus **27.08 t CO_2** avoided a year.

Metric	Baseline	Optimised	Saving
Air generated	80 SCFM	64 SCFM	**16 SCFM**
Energy per day	408 kWh	318 kWh	**90 kWh**
Cost per day	₹ 3,468	₹ 2,699	**₹ 769**
Specific power	0.205 kW/SCFM, tracked live with trend and alarm		

How the Savings Are Found

1. **Leak programme.** WA-EUS survey, costed report, repair and re-survey: leakage from 20–30% down to under 5%.
2. **Pressure optimisation.** The WAPS pressure profile finds the drop, the set-point comes down, and every bar saved is about 7% energy.
3. **Compressor efficiency and sequencing.** WAPM + WAFS give kW/CFM per machine; unload hours expose the wrong lead-lag.
4. **Dryer and drain discipline.** WADS dew point and WAM / WAL drains stop wet air, purge waste and blow-off losses.
5. **Keep it.** The WASM-604 scorecard and action cards make sure the savings don't drift back.

Automotive

"WiseAir sensors helped us identify three major leakage points in our compressor network. We recovered those losses within two months and have seen consistent energy savings since."

Maintenance Manager, automotive plant, Pune

Textiles

"The IIoT dashboard is simple enough for our shift supervisors to use without any training. Real-time alerts have stopped unexpected compressor shutdowns completely."

Plant Head, textile manufacturer, Tirupur

Monitoring typically cuts compressed air energy by up to 30%, with payback on the instrumentation inside the first year.

A Global Partner Network, a Local Touch

Our sensors are developed with design and technology support from partners across North America, Europe and Asia. Coimbatore is the Asia regional head office and manufacturing base.

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One Group, the Whole Journey

WiseAir Technologies
Flow, dew point, pressure, power and leak sensors, smart drains and WASM software: the measurement layer.

Systel Energy Solutions
Compressed air audits, leak surveys and digitization projects: the service arm that puts WiseAir data to work.

Systel Engineering Controls
Pneumatics retail and engineering: the components to fix what the sensors find.

How We Work with You

1. **Site assessment.** A walk-through to map your savings potential.
2. **Installation.** Pre-installation visit, commissioning and remote support.
3. **Calibration.** Post-installation maintenance and calibration services.

Free Calculators at wiseair.in/tools

Leak Cost | **Flow Unit Converter** | **Pressure Dew Point** | **Savings & ROI**

Resellers and system integrators: enrol as a WiseAir channel partner at wiseair.in.

Let's Turn Your Compressed Air into a Competitive Advantage

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