

# **Pegasor PPS-G2: One technology for different environments**

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Pegasor Oy**

**VERT Forum 2026**



# Pegasor Oy

## Who?

**Finnish environmental technology company founded 2008. Based in Tampere.**

## What?

**Nanoparticle and ultrafine particle detection technologies**

- OEM particle sensors
- UFP monitors
- Customized solutions

**Pegasor's own, unique particle sensor technology**



**Engine emissions**



**PTI**

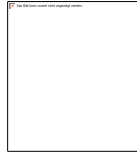


**Urban air quality**



**IAQ**

# Pegasor Particle Sensor PPS Technology



**Real-Time Data:** Continuous, fast response (1s or less), PN, particle size, LDSA.



**Wide Measurement Range:** From low ambient levels to high-concentration sources with one instrument.



**Low Maintenance & Robust:** No working fluids, no consumables, no filters. Flow-through design.



**Handles Harsh Samples:** Designed for raw, hot, and dirty samples (e.g., direct engine exhaust, stack emissions).



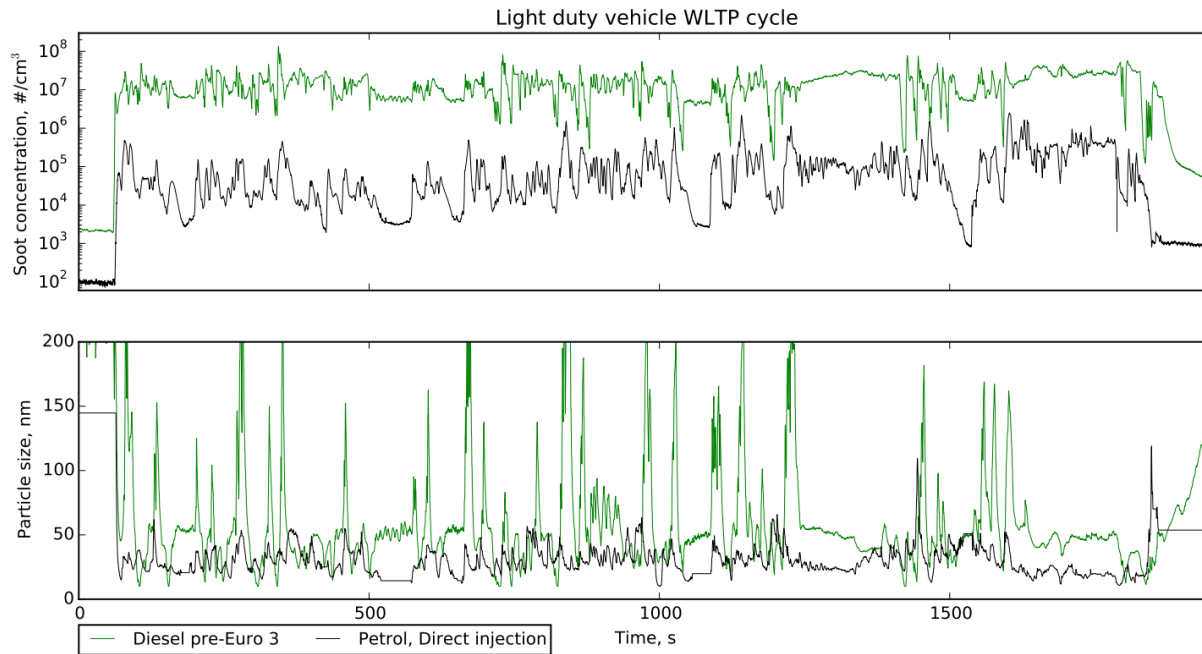
**Built-in VPR:** For efficient volatile removal.

**Pegasor Particle Sensor is an advanced diffusion-based electrical sensor using an "escaping current" technique.**

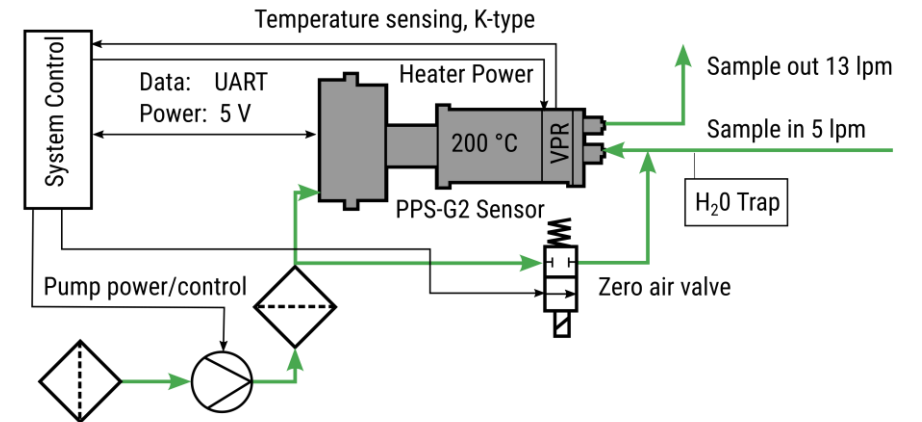


# PTI

**Pegasor PPS-G2 sensor can be applied to both diesel and gasoline exhaust measurements**



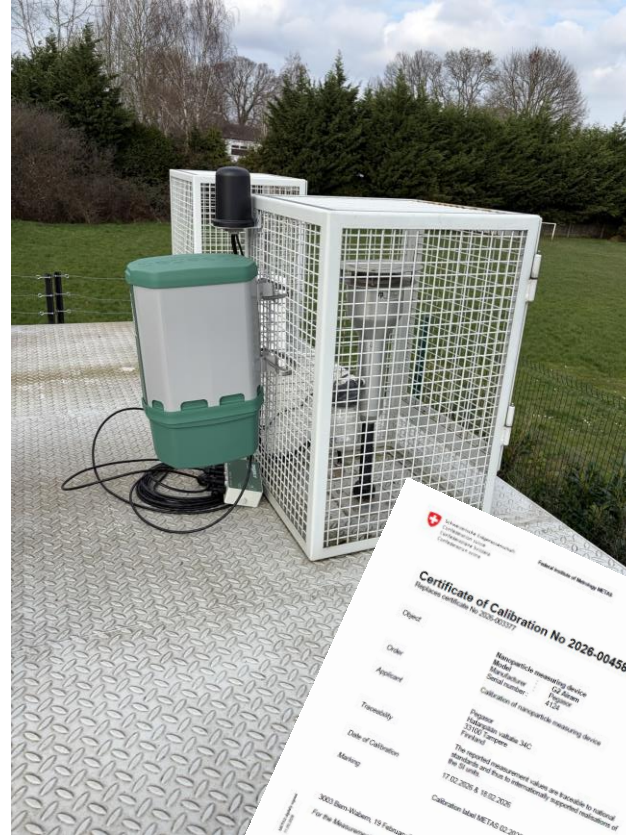
**Designed for integration with built-in VPR**



# Ongoing projects



Funded by  
the European Union



**METECH** - project develops solutions for precise and reliable emission measurements within energy, marine, aviation and NRMM sectors.

**pegasor**



# GIANT: Global Trend in IAQ: Daycare air quality

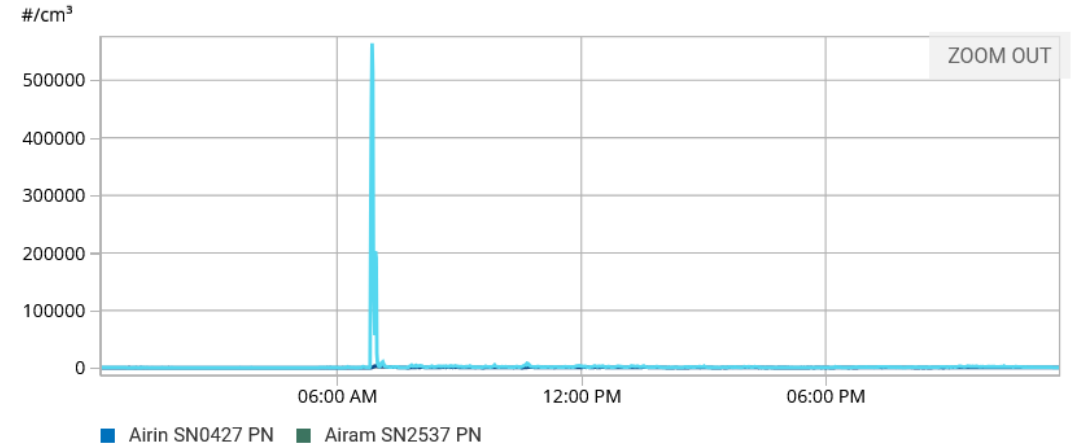
- **Airam outside, Airin inside**
  - **~600 000#/cm event outside**
  - **~4000#/cm event inside, with nice exponential decay**



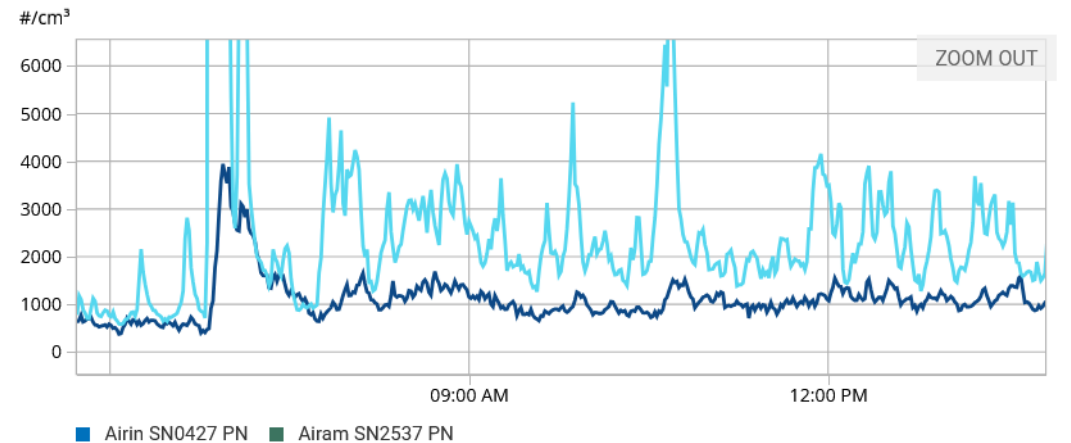
<https://www.giant-iaq.fi/>

**pegasor**

MEASUREMENT HISTORY GIANT - SELECTED SENSORS 11/08/2024 12:10 AM - 11/08/2024 11:44 PM



MEASUREMENT HISTORY GIANT - SELECTED SENSORS 11/08/2024 5:43 AM - 11/08/2024 1:49 PM



[www.pegasor.fi](http://www.pegasor.fi)



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