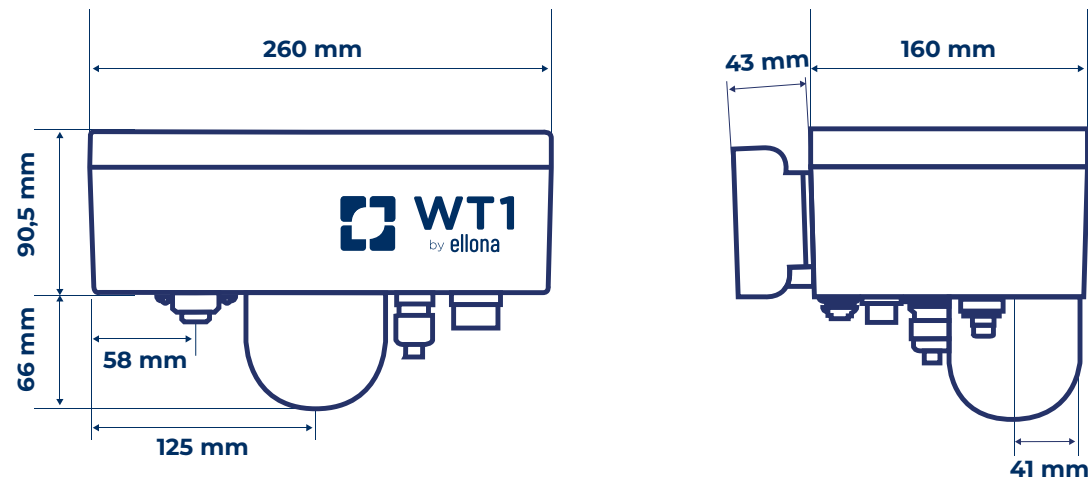


Technical specifications and options

Weight: 3 kg
Ingress Protection ranging: IP 65



CONNECTIVITY & POWER :

- **Communication options:** Multi-Band 2G/3G/4G, Wi-Fi, Ethernet, Modbus RTU Slave, or recommended LTE-M/GPRS (used as LTE-M fallback)
- **Power consumption:** Between 4.5 W and 6 W
- **Power options:**
 - 100-240 V AC, 50-60 Hz
 - 12 V DC power adapter included: Power over Ethernet, or 12 V solar panel battery (optional accessory)
- **Geolocation:** Built-in GNSS (GPS, Galileo, Beidou, Glonass)
- **Data logging:** Data logger with up to 1 month of storage in case of connection loss
- **Customizable settings:** Down to 1 data set every 10 seconds
- **Installation:** Installation time under 2 hours / Delivered fully calibrated
- **Connectors:**
 - Option 1: Ethernet (RJ45 female)
 - Option 2: Micro USB
 - Option 3: 4-20 mA, 0-10 V, Lumberg
 - Option 4: External slot for SIM
- **Remote management:**
 - Bidirectional communications




Air Quality


Gases


Odours


Particles


Noises


Liquids


Temperature


Humidity


Atmospheric pressure



WT1

Effective oversight of your operational
environmental footprint

Complete solution for monitoring and identifying
in real time outdoor nuisances and pollutants

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 **ellona**

Environmental Intelligence

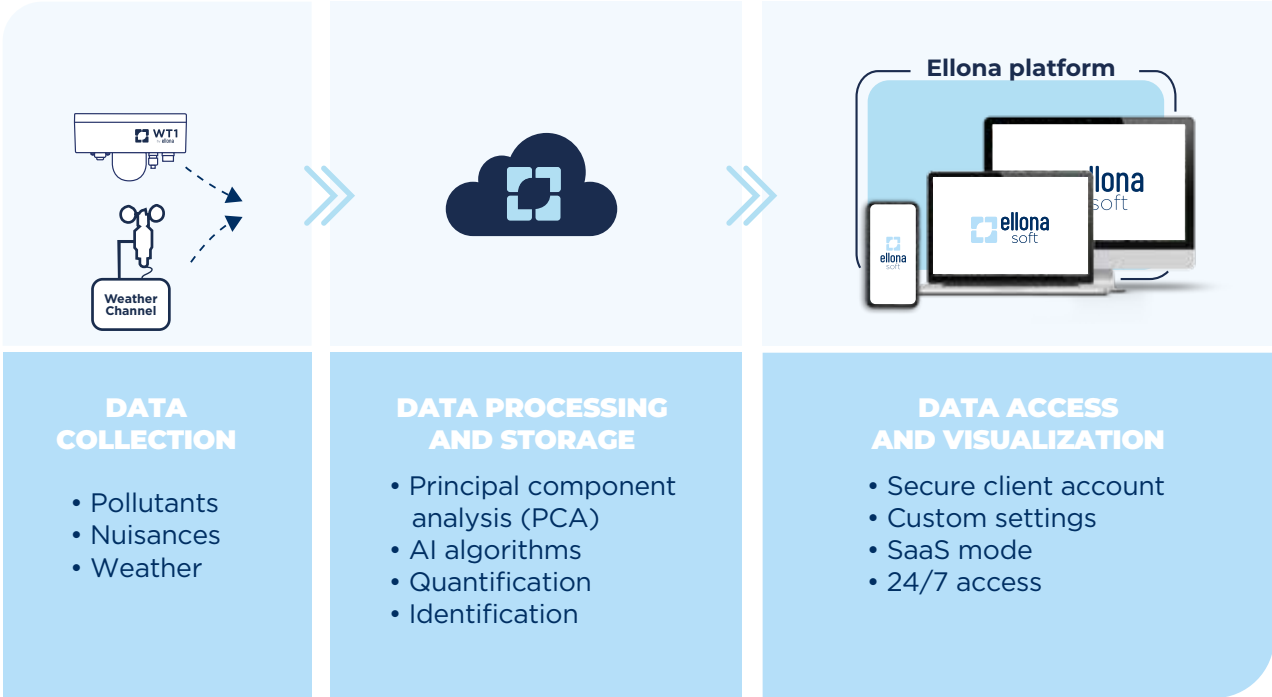
The WT1 is a versatile multisensor device excelling in comprehensive and continuous data collection, monitoring parameters ranging from gas levels and odours to VOCs, fine particles, and noise, providing an all-encompassing solution for seamlessly capturing physical, chemical, and perception metrics.

- **Average / Data sending periods:** Every 10 seconds for real-time information updates
- **Multisensor device:** Continuous collection of physical, chemical, and sensory data.
 - Native functionalities : temperature, humidity, atmospheric pressure
 - Optional sensors: noise, particles (24 classes from 0.3µm to 40 µm), up to 8 different gases (from a 24 gas list) and odours (4 metal oxide gas sensors (MOX) - possible correlation with Dynamic Olfactometry campaigns - EN 13725 /ASTM679)
- **Alarm mode:** Customizable thresholds on all measurement channels
- **Automation features:** On-off relay and 4-20 mA switch for automated triggering of processes or sampling
- **Standalone design:** Ideal for automated pollution control processes
- **Cutting-edge software:** Data acquisition and processing software platform
- **Dispersion plume tracking:** Real-time and historical tracking of dispersion plumes
- **Software updates:** Up-to-date with software hosted on secured servers and online update functionality
- **Odour data banks:** Repository for odour identification and qualification
- **Subjective perception reporting:** QR Code on each module for database adaptation, device training, and alarm threshold adjustment





Main application fields



How it works



The only scalable and customizable solution on the market

 <ul style="list-style-type: none">• Air quality• VOCs	 <ul style="list-style-type: none">• Simultaneous monitoring of up to 8 distinct gases	 <ul style="list-style-type: none">• Odours• Intensity (OU)• Identification	 <ul style="list-style-type: none">• PM1, PM2.5, PM4, PM10 (24 classes from 0.3µm to 40 µm)
 <ul style="list-style-type: none">• Noise• Intensity (dBA)• Identification	 <ul style="list-style-type: none">• Turbidity• pH• NKP (soil)• Dissolved O₂	 <ul style="list-style-type: none">• Dispersion plume• Impact on the neighborhood	 <ul style="list-style-type: none">• Human perceptions (subjective feedback)• Customizable multi-parameter survey