



A division of U.S. Environmental Rental Corporation



The complete environmental data acquisition solution

A full service solution that includes

- The communication **device**,
- the **enclosure**,
- a **web portal**, and
- **support** for everything.

Parameters include **VOCs** down to ppb resolution & humidity suppression, Up to 5 **Toxic Gas** sensors, Fugitive **Dust**, **Weather**, **Sound** level with octave analysis, and **Water** Pressure and Temperature



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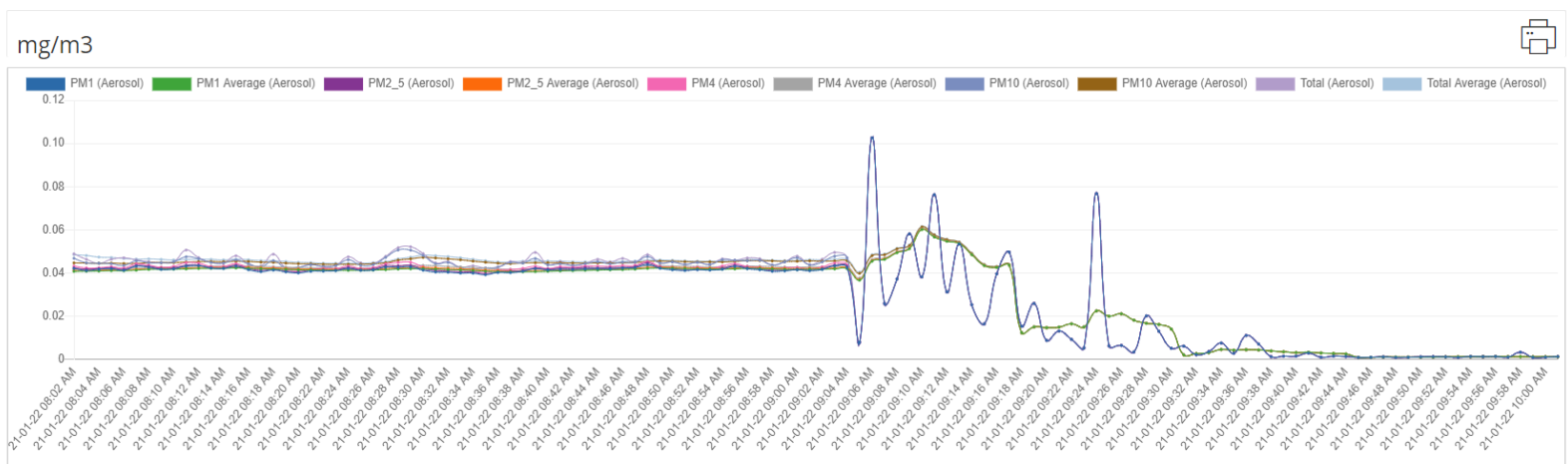
sales@usenvironmental.com



What is remote data acquisition?

The typical procedures and methods for acquiring and using real-time, reliable data for airborne particulate matter, volatile organic compounds, toxic gases, and water measurements have always presented inherent difficulties and challenges. This is true in circumstances where only one location needs to be monitored. Where multiple locations need to be monitored – such as along the perimeter of a large construction and demolition sites – these challenges are compounded.

Devices that utilize data collection technology and radio, satellite, or cellular communication networks can be connected to the sensors that have been deployed to measure these parameters. These devices open up the possibilities to see, save, and react to the data in real time.



What sets Envizor apart from other remote monitoring solutions?

Our partnership with Verizon gives you access to their CAT-M1 platform—America's largest, most reliable 4G LTE network.

The U.S. Environmental team and partners have put their collective decades worth of experience in deploying, troubleshooting, and repairing field instrumentation; designing, building, and perfecting environmental sensors and electronics; and innovative, cutting edge software development into a solution with one thing in mind: your productivity.

Envizor is not just a set of components. Each individual member of the Envizor team is passionate about continuously improving the experience of collecting, visualizing, and using this vital data.

U.S. Environmental is your partner on all remote monitoring projects.



The Device

The Envizor P3 S-GPS features 3 serial ports and a Modbus expansion port. But, there's so much more. It's intuitive, logical, and rugged design keeps you focused on your core responsibilities.



Intuitive status indicators

Three LED status displays—each supplied with green and orange colors—are engineered with logic to tell you which sensors are connected and working.

Secure power connectors

The threaded DC power connectors ensures that your device stays connected no matter what happens during deployment.

Strong Signal

Our partnership with Verizon allows access to the CAT-M1 4G LTE network which have proven to be the largest, strongest, and best maintained networks in the world.

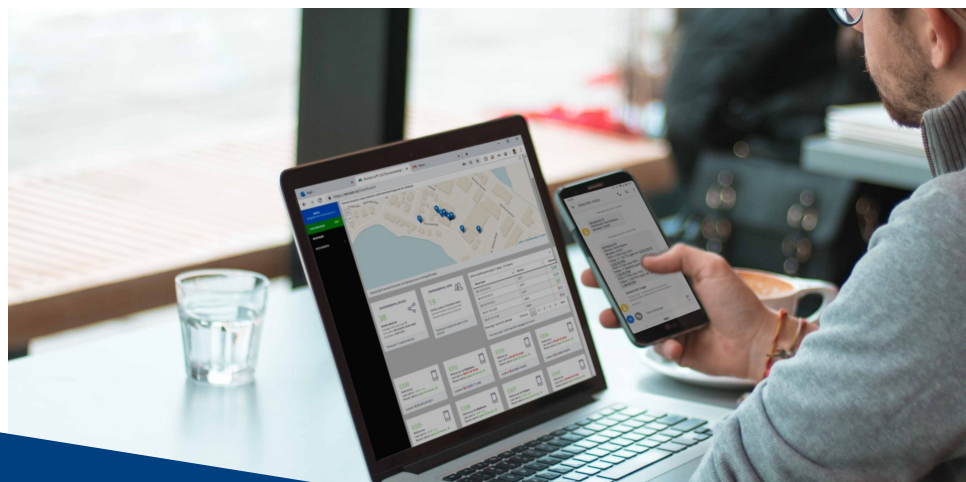
The Enclosure

This versatile, rugged enclosure is ready to be deployed anywhere, with any thing!

- Fiberglass reinforced polyester, UL 50, NEMA Type 1, 3, 4X, 6P, 12, -40°F to +250°F
- VOC / Toxic Gas Inlet
- Ventilation for proper air exchange
- Sturdy handle for easy transport and quick deployment
- External Power Port for solar-charged power - up to four devices simultaneously!



And full support from our team of experts for everything!



Prepare for your next remoting monitoring project

Step 1 Power

- ☐ AC Power
- ☐ 12V Battery (scalable)
- ☐ 200W Solar Panels



Here are a few questions to help decide:

- **How often will the stations be checked? Everyday? Once every week or month? Or 'Set it and forget it'?**
- **Will they be up and running 24/7 or on shifts?**
- **Are there security concerns at the job site?**

Step 2 Sensors

- ☐ 1st _____
- ☐ 2nd _____
- ☐ 3rd _____

Each station can include up to three of the following:

Dust	TSI DustTrak 8530, TSI DustTrak DRX
VOCs	MiniRAE 3000, ppbRAE 3000, Ion Science Tiger
Toxic Gas	MultiRAE
Weather	Davis Vantage Pro2, Davis Vantage VUE
Sound	Svantek 971, (+octave band), TSI Quest SoundPro
Water	All Seametrics INW sensors

Step 3

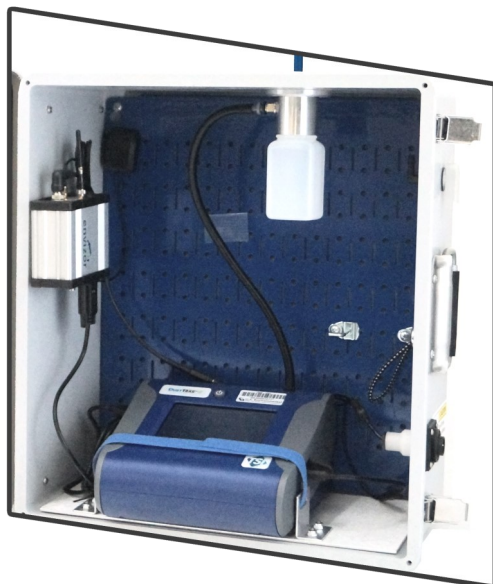
Site Management Preparation A few questions to consider before deployment:

- ☐ Email Address for Account Administrator: _____
- ☐ Yes Will you need the sensors to send alerts to the users based on action levels?
- ☐ No Details: _____
- ☐ Yes Will you need to set up calculated channels based on time-weighted averaging? i.e. 8 or 24 hours. _____
- ☐ No



Examples of typical Envizor stations

The Envizor P3S-GPS Field Controller includes 4 separate communication ports—a modbus expandable port plus three 9-pin serial ports. There are multiple possible configurations and combinations from which to choose.



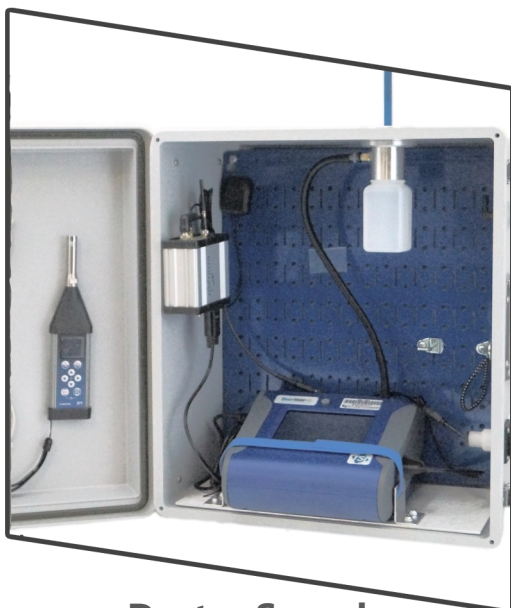
Dust



Dust + VOCs



Dust + VOCs + Weather



Dust + Sound



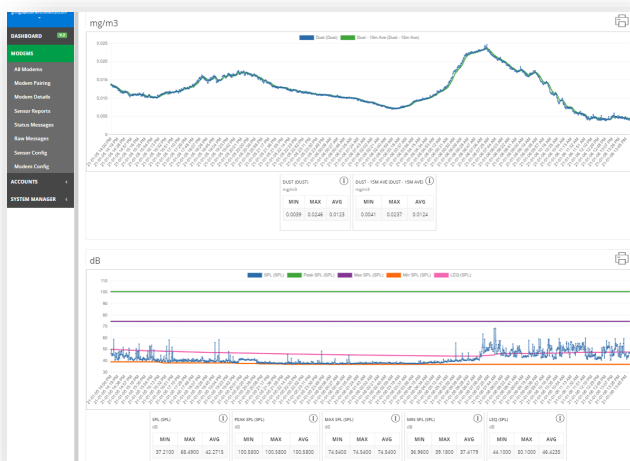
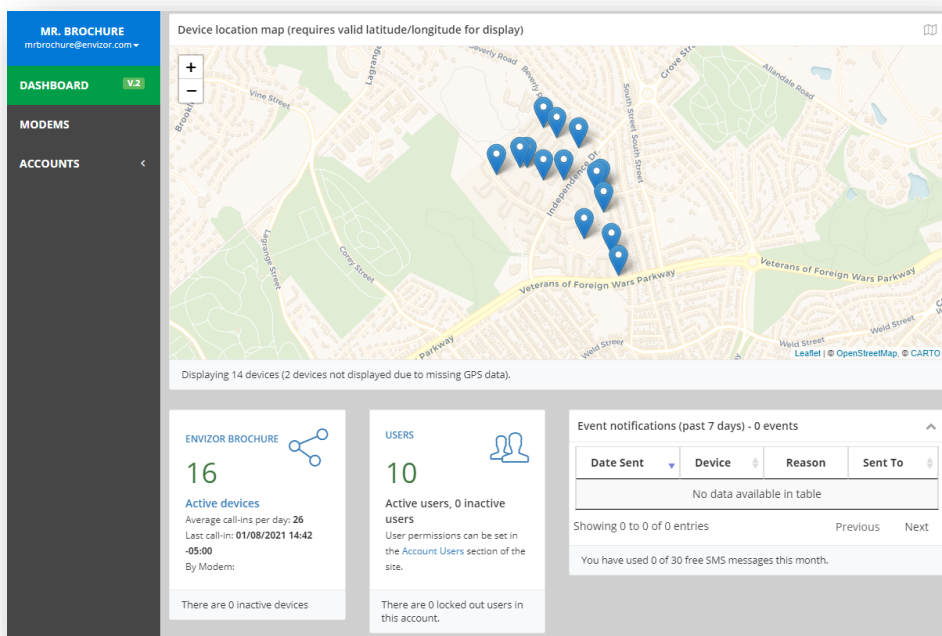
Dust + Toxic Gas + Weather



Water Measurement

The simple, clean user interface means

Less screen time,
Fewer clicks,
More productivity.



The Envizor web portal has a robust and fully customizable feature set. Yet, the simple and clear navigation allows you to focus on your project with the peace of mind knowing that your data is at your fingertips, wherever, whenever you need it.

- Configurable reporting schedules
- Sensor Configurations including averaging and pairing features
- Alerts based on 'Readings Above' and 'Readings Below' thresholds
- Account and User Profile Management



One Click .PDF Reports

CSV

One Click Spreadsheet

Reading Date	Limit	Vcommon Modem (Volts)	Vbattery Modem (Volts)	Temperature Modem (degC)	Dust Dust (mg/m3)	SPL SPL (dB)	Dust - 15m Ave Dust - 15m Ave (mg/m3)	Peak SPL SPL (dB)	Max SPL SPL (dB)	Min SPL SPL (dB)	LEQ SPL (dB)
01-08-21 15:10	N	12.66197	0	12.81747	0.002195661	42.31	0.002599538	105.22	74.81999	36.8	47.31
01-08-21 15:09	N				0.00315853	38.84	0.002690226	105.22	74.81999	36.8	47.31
01-08-21 15:08	N				0.002299922	38.71	0.002671299	105.22	74.81999	36.8	47.31
01-08-21 15:07	N				0.002681339	41.08	0.002693787	105.22	74.81999	36.8	47.31
01-08-21 15:06	N				0.002848324	45.8	0.002637856	105.22	74.81999	36.8	47.31
01-08-21 15:05	N	12.55697	0	13.48502	0.002815543	57.2	0.002606833	105.22	74.81999	36.8	47.31
01-08-21 15:04	N				0.003383754	42.41999	0.002539531	105.22	74.81999	36.8	47.31
01-08-21 15:03	N				0.003011741	40.66	0.002419531	105.22	74.81999	36.8	47.31
01-08-21 15:02	N				0.003011741	40.66	0.002419531	105.22	74.81999	36.8	47.31

Case Study #1

Challenges: Provide 24/7 sound and fugitive dust data to the surrounding residents of a new housing development; meet the municipal guidelines for each parameter; limited health & safety resources.

Solutions Provided: Envizor stations positioned along the perimeter; Dust-Trak 8530s; Svantek 971 sound level meters; solar-powered batteries; on-site support on demand.

Positive Benefits: The project continues to operate on time and under budget with minimal disruption to the community.



Case Study #2

Challenges: Provide 24/7 fugitive dust and VOC data in accordance with a Community Air Monitoring Plan (CAMP); Personnel with limited knowledge of such systems and limited budgeted time for on site support

Solutions Provided: Envizor stations positioned along the perimeter; Dust-Trak 8530s; MiniRAE 3000s; solar-powered batteries; on-site support on demand.

Positive Benefits: On site personnel were trained quickly and comprehensively; no changes to resources allocated to this project were necessary.





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