

**rstar**  
**AFFINITY**

**CRITICAL ASSET  
DATA AT YOUR  
FINGERTIPS**



# CONNECTIVITY SOLUTIONS

Built by our team of seasoned instrumentation experts specifically for geotechnical monitoring projects, the RSTAR Affinity system comprises loggers, gateways, secure communications for data telemetry, and mobile and desktop applications. Forget the headaches of improvised monitoring solutions cobbled together from different third-party vendors.

RSTAR Affinity represents your complete industrial internet of things (IIoT) solution for reliable, real-time data flow from your work site to your desktop—all from a single source.



## RSTAR AFFINITY GATEWAY

The RSTAR Affinity Gateway is easy to set up and connect to RSTAR Data Loggers for seamless communication in a wide range of geotechnical applications.



## RSTAR AFFINITY DATA LOGGER

The RSTAR Affinity Data Logger is designed to connect to a variety of field analog and digital sensors via interface module/channel customization available at the time of order.



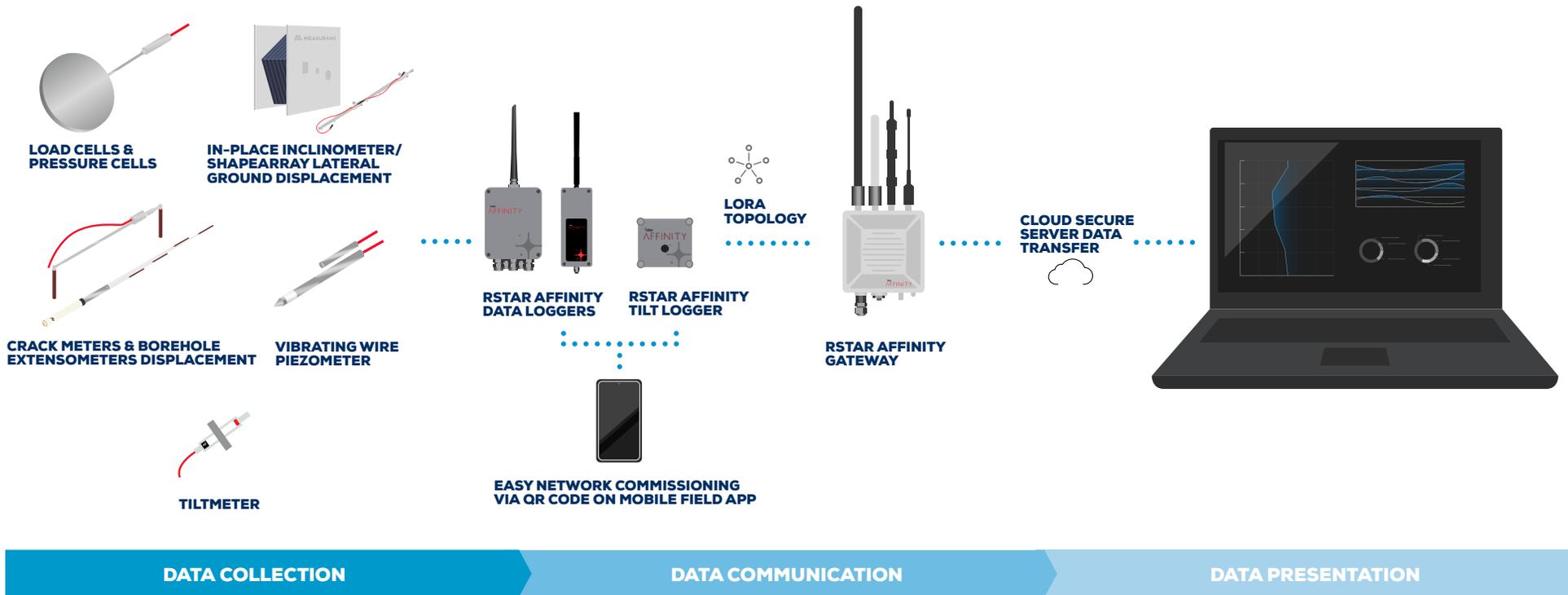
## RSTAR AFFINITY TILT LOGGER

The RSTAR Affinity Tilt Logger provides ample storage for continuous data collection. Its intuitive interface allows for easy setup and quick deployment.



## RSTAR AFFINITY SINGLE CHANNEL DATA LOGGER

The RSTAR Affinity Single Channel Vibrating Wire Data Logger is designed to be a cost-effective wireless data logger solution for single sensor locations.



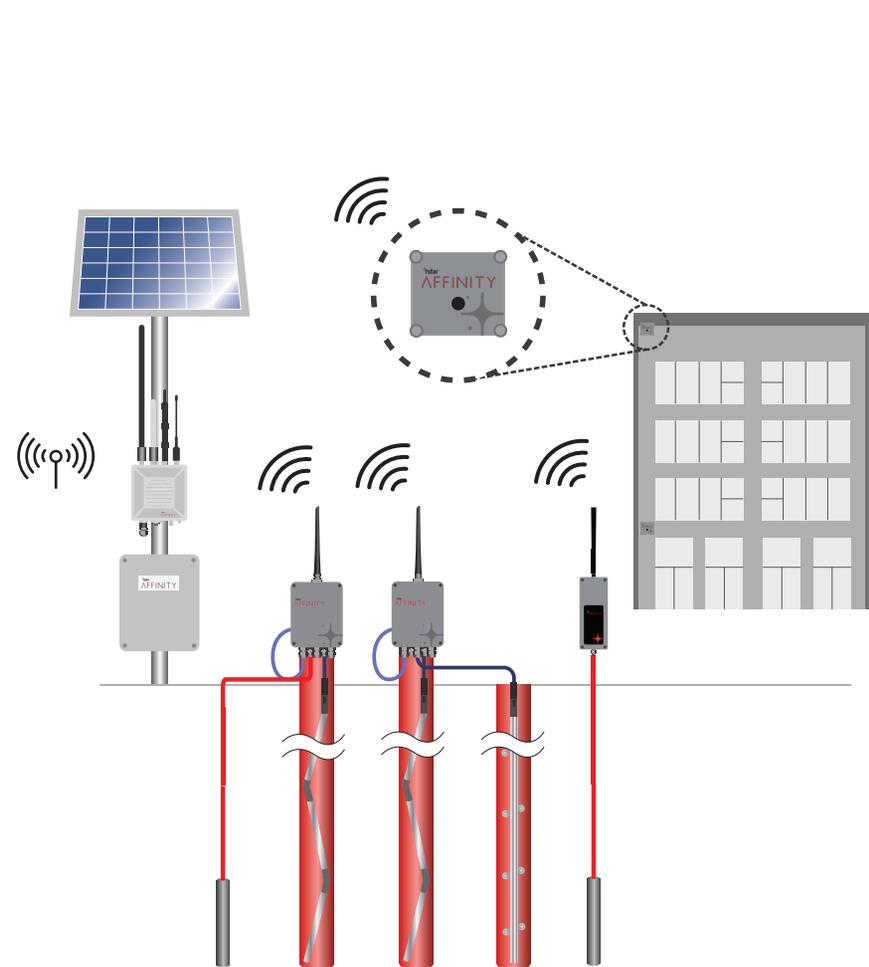
# CRITICAL ASSET DATA AT YOUR FINGERTIPS

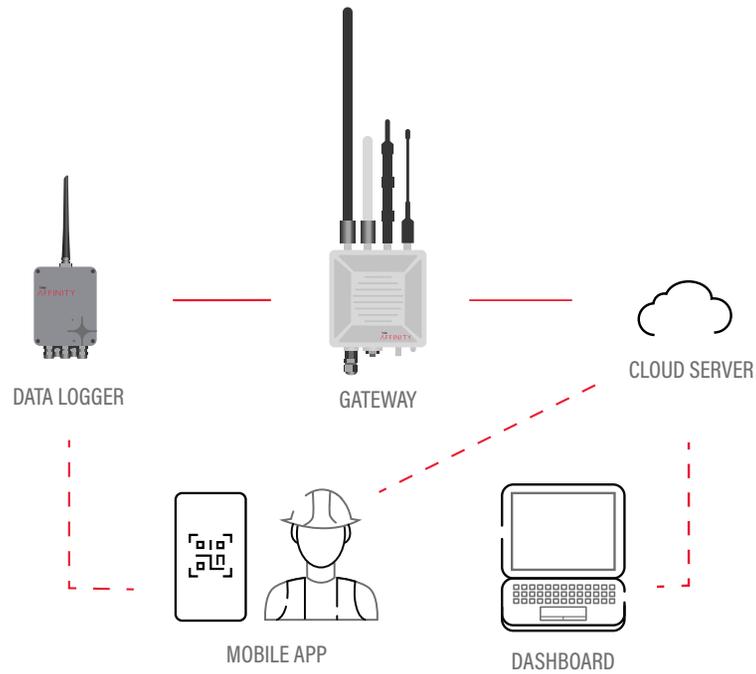
Leveraging state-of-the-art low-power wide-area network technology, RSTAR Affinity establishes reliable data collection on any remote site.

Monitoring systems are deployed with a Gateway that can securely transmit data over cellular or satellite networks or connect to local networks via Wi-Fi or ethernet.

RSTAR Affinity Gateway's offer two-way communication to the battery-powered loggers the point throughout the monitoring environment.

There are a choice of three field deployable wireless data loggers, each with their own advantage for a site/location specific requirement. Loggers can be pole-mounted or wall-mounted for suitability across any application. The RSTAR Affinity system is compatible with Orica Digital Solutions' geotechnical sensors, offering express set-up, making it the fastest platform for establishing a monitoring network.





Intuitive configuration is completed via the mobile app, which is available on iOS or Android devices, enabling users around the world with any level of experience to efficiently install and manage a monitoring network.

Within the RSTAR Affinity dashboard, we can manage our fleet, set alarms, generate reports, and quickly gain an understanding of what is happening on our site from anywhere in the world.

RSTAR Affinity can be deployed on a secure cloud server, offering flexibility and managing data safely, efficiently, and reliably.

# RSTAR AFFINITY WEB-BASED DASHBOARD

Hosted in the cloud behind user credentials, this application provides all the tools required to configure data telemetry from the field to be accurately analyzed.



## MAPS

Scan bird's eye view maps focused using latitude and longitude to visualize and set up your site locations



## GRAPHS

Create multiple graph types from sensor data including time series and XY, and scatter for data visualization and analysis



## ALERTS

Receive near real-time email notifications containing calculation metrics and sensor status when user-defined sensor data reach thresholds



## DATA TABLES

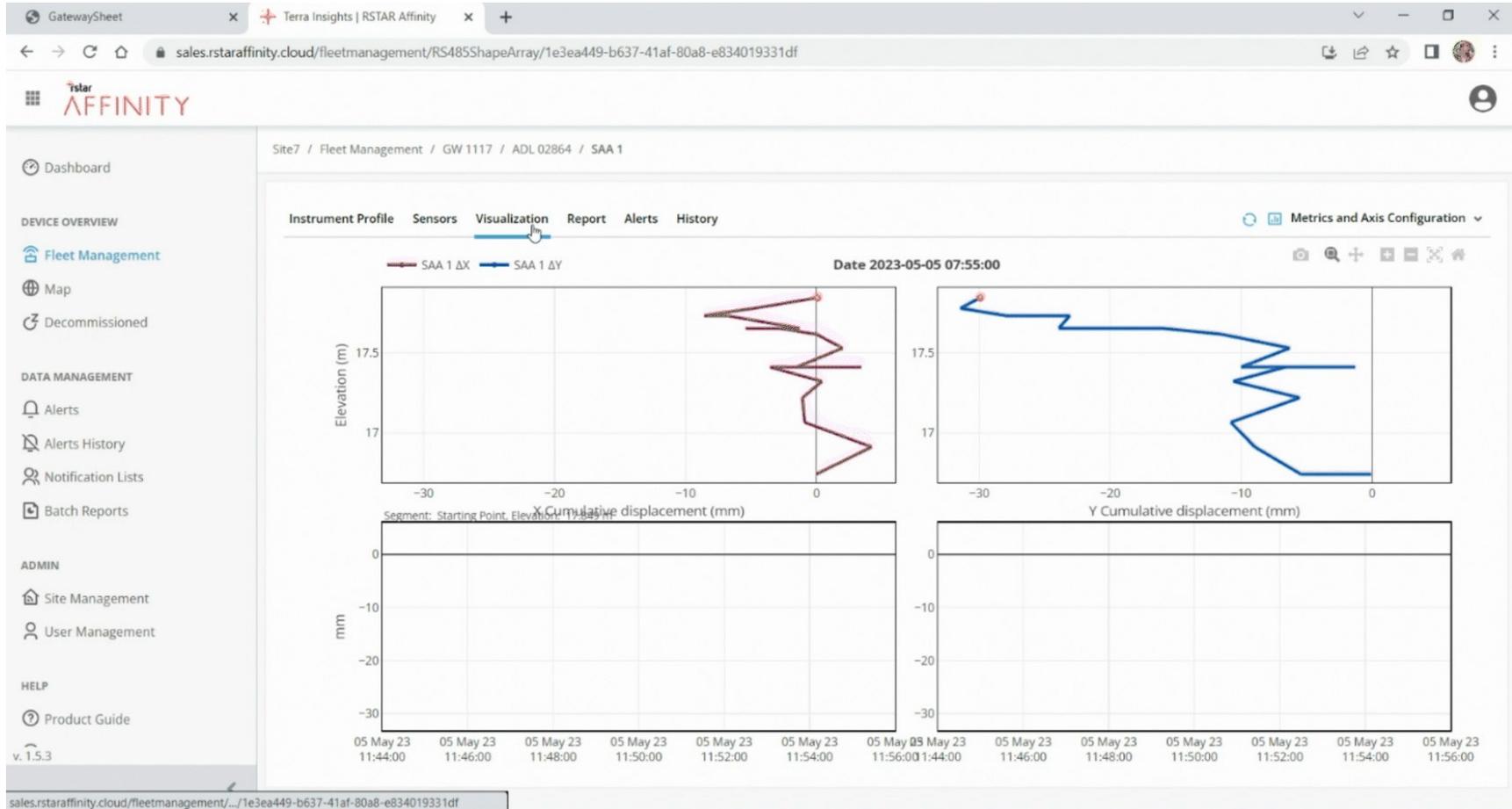
View multiple sensor-type data in standardized data tables for clear review, comparison, or export



## REPORTS

Take advantage of powerful automated report creation, distribution, and linking of reports to real-time charts, graphs, maps, and dashboards

The RSTAR Affinity web-based dashboard is the all-in-one data telemetry hub.



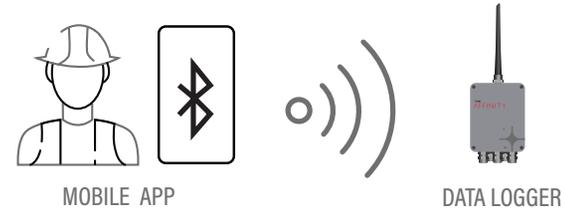
# RSTAR AFFINITY FIELD APPLICATION

Installed on a mobile device (smartphone, tablet, or laptop) to provide flexibility and access to hard-to-reach sites out in the field, this application can claim or un-claim loggers to and from established sites and their RSTAR Affinity Gateways to transmit data.



## BLUETOOTH LOW ENERGY SCANNING

Quickly add devices to sites via Bluetooth using the free Mobile App



## SITE AND DEVICE CONFIGURATION

Add/remove devices to/from established sites, and configure them for desired communication intervals



## STORE OFFLINE ACTIVITY

Store offline activity locally for transmission when a connection can be established to the cloud server. A CSV file version of the data can also be downloaded for instant data verification

The RSTAR Affinity Field Application allows for easy network deployment and configuration.



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Watch our **RSTAR Affinity**  
**Overview video** to learn  
more



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