



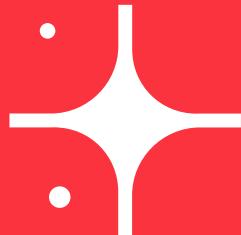
AFFINITY

CRITICAL ASSET DATA
AT YOUR FINGERTIPS



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 a variety of field analog and digital sensors to the RSTAR Affinity web-based dashboard.



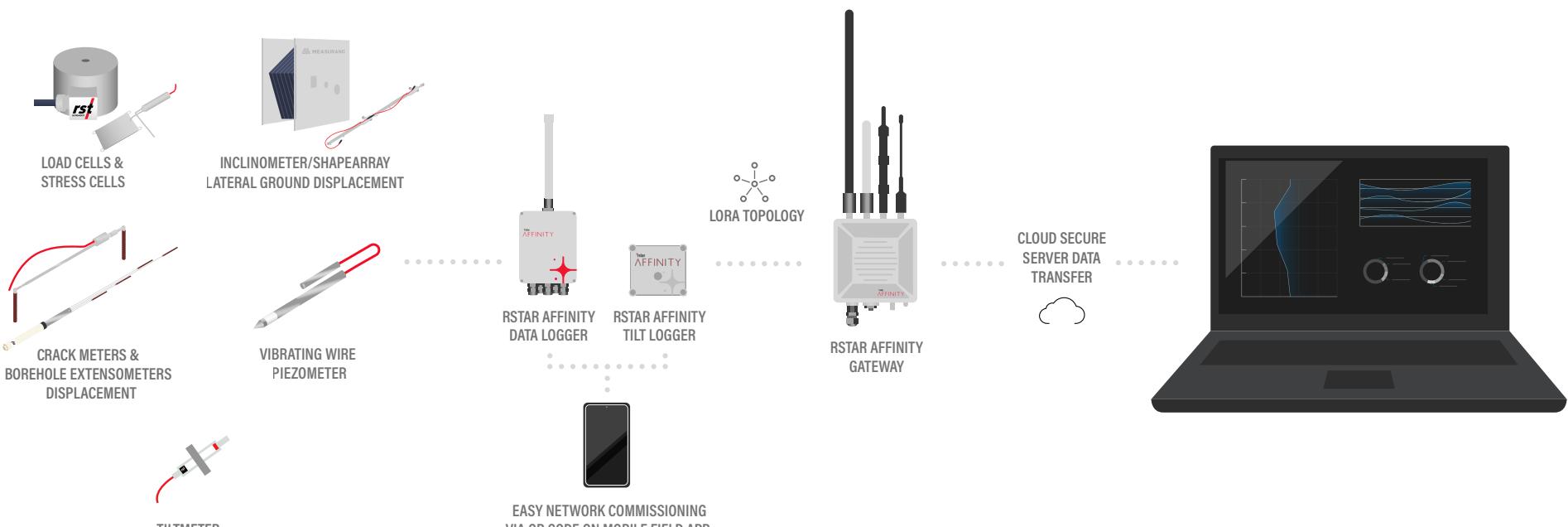
RSTAR AFFINITY TILT LOGGER

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



AFFINITY

CONNECTIVITY SOLUTION

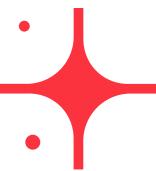


DATA COLLECTION

DATA COMMUNICATION

DATA PRESENTATION

CRITICAL ASSET DATA AT YOUR FINGERTIPS

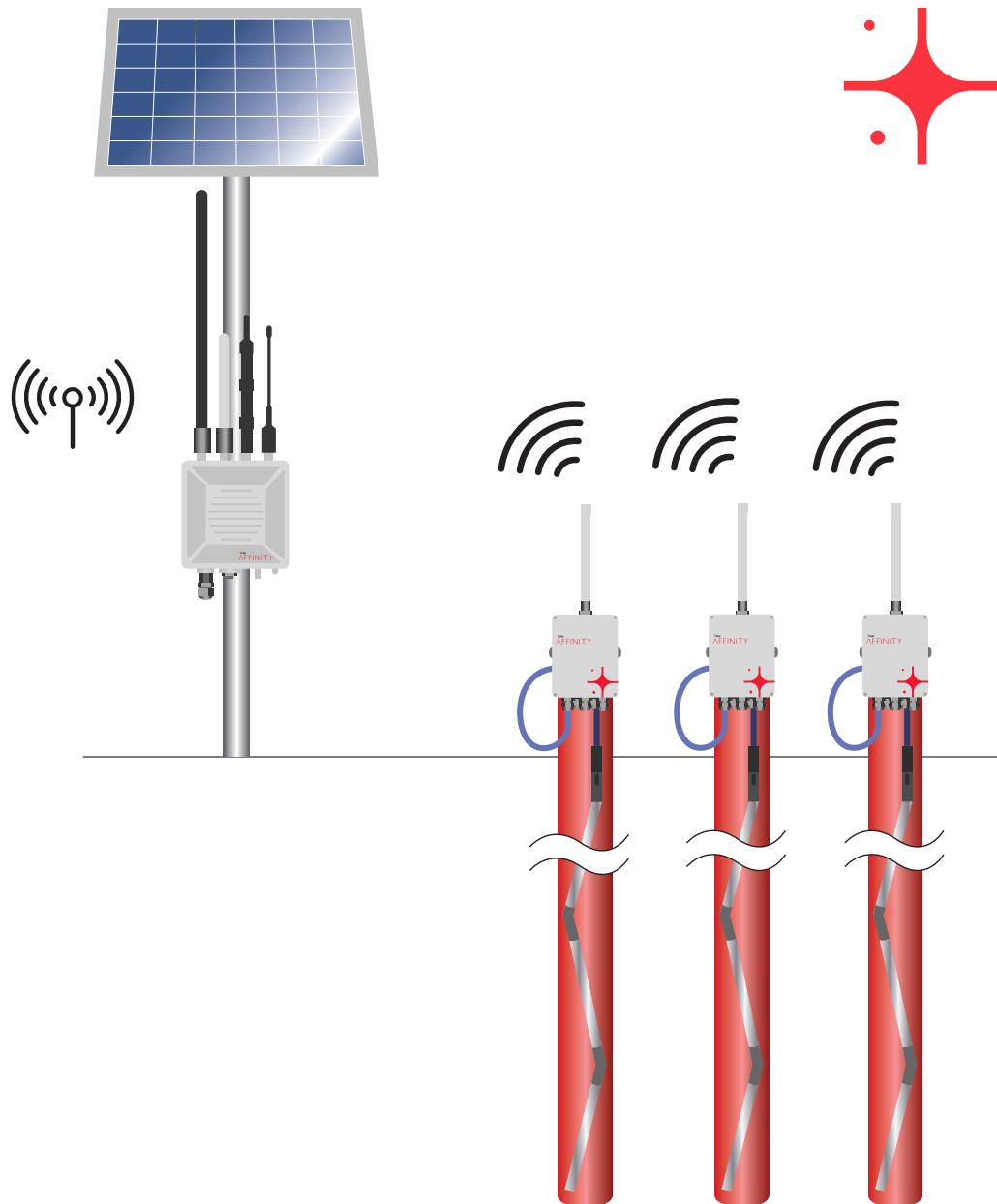


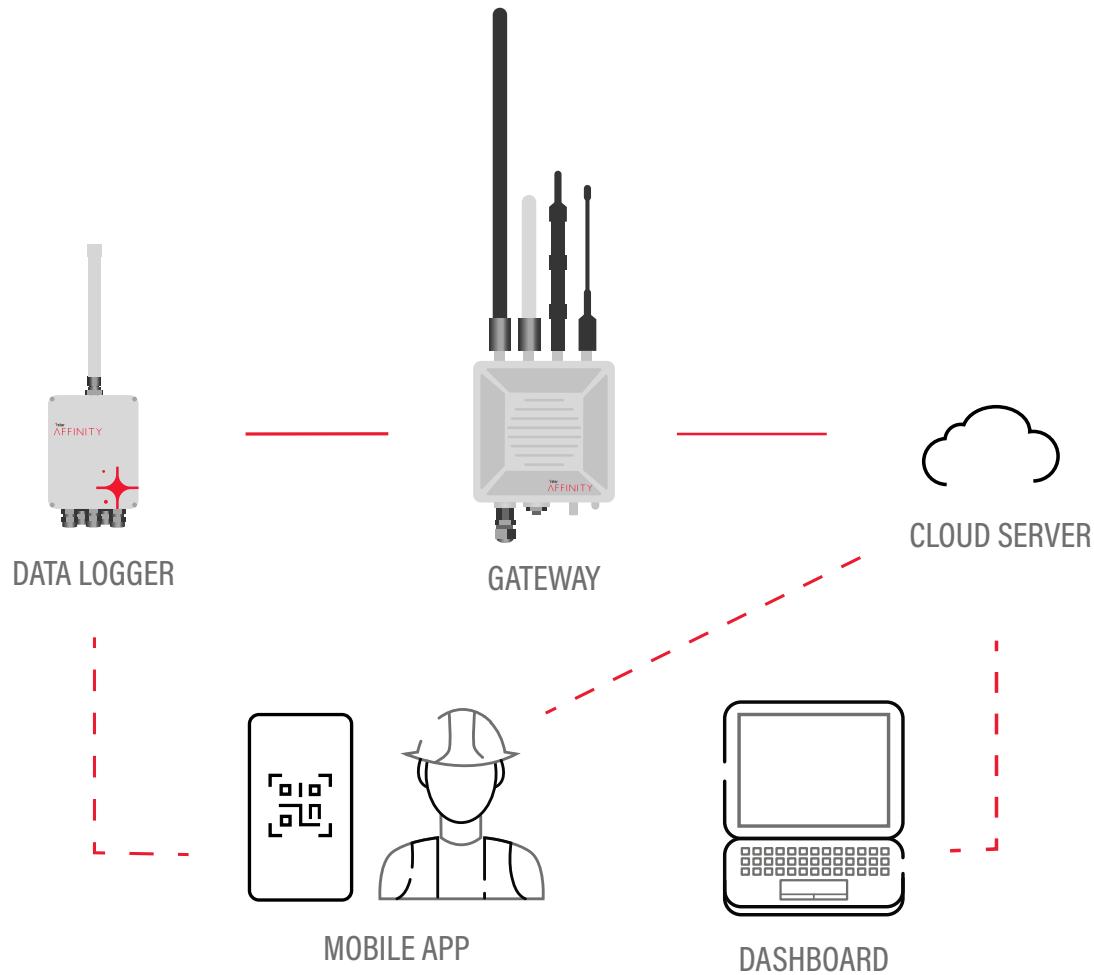
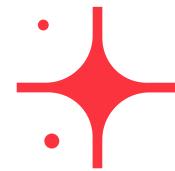
Leveraging state-of-the-art low-power wide-area network technology, RSTAR Affinity establishes reliable data collection on any remote site.

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.

Each logger is equipped with replaceable lithium batteries and can be configured with 125 digital or vibrating wire-ready channels. Loggers can be pole-mounted or wall-mounted for suitability across any application. The RSTAR Affinity system is compatible with Terra Insights' 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 cloud or existing on-premises architecture, offering flexibility and managing data safely, efficiently, and reliably.

RSTAR AFFINITY WEB-BASED DASHBOARD

Hosted in the cloud (or a closed on-premises environment) 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

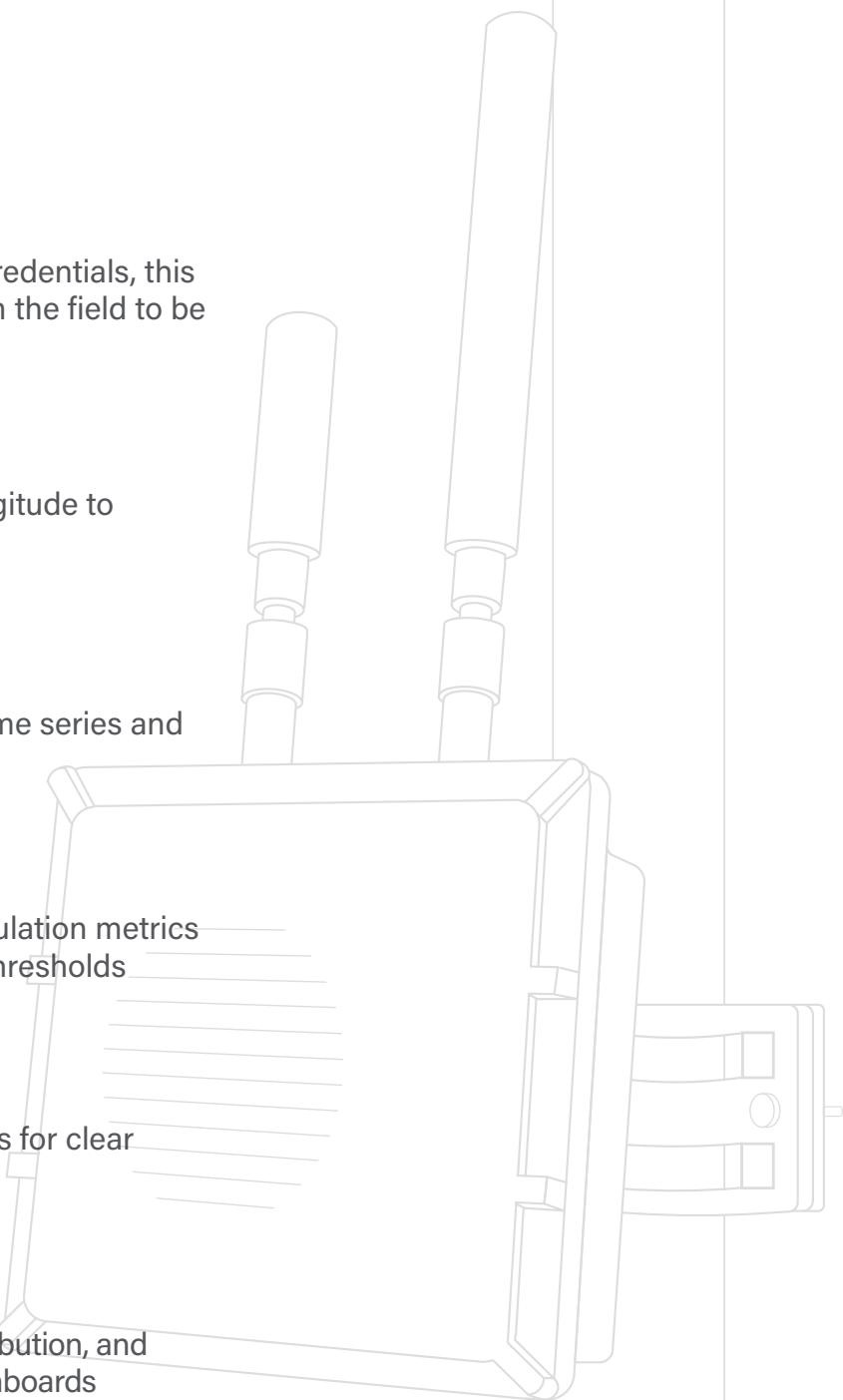


View multiple sensor-type data in standardized data tables for clear review, comparison, or export

REPORTS



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



RSTAR AFFINITY WEB-BASED DASHBOARD

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



GatewaySheet X Terra Insights | RSTAR Affinity X +

sales.rstaraffinity.cloud/fleetmanagement/RS485ShapeArray/1e3ea449-b637-41af-80a8-e834019331df

 **AFFINITY**

Dashboard

DEVICE OVERVIEW

Fleet Management

Map

Decommissioned

DATA MANAGEMENT

Alerts

Alerts History

Notification Lists

Batch Reports

ADMIN

Site Management

User Management

HELP

Product Guide

v. 1.5.3

Instrument Profile Sensors **Visualization** Report Alerts History

Metrics and Axis Configuration

Date 2023-05-05 07:55:00

SAA 1 ΔX **SAA 1 ΔY**

Elevation (m)

Segment: Starting Point: Elevation 17.825 m

X Cumulative displacement (mm)

Y Cumulative displacement (mm)

05 May 23 11:44:00 05 May 23 11:46:00 05 May 23 11:48:00 05 May 23 11:50:00 05 May 23 11:52:00 05 May 23 11:54:00 05 May 23 11:56:00 05 May 23 11:44:00 05 May 23 11:46:00 05 May 23 11:48:00 05 May 23 11:50:00 05 May 23 11:52:00 05 May 23 11:54:00 05 May 23 11:56:00

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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.

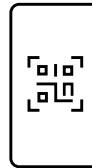
QR Code Scanning



Quickly add devices to sites by scanning their QR Code with your device's camera



DATA LOGGER



MOBILE APP



Site and Device Configuration

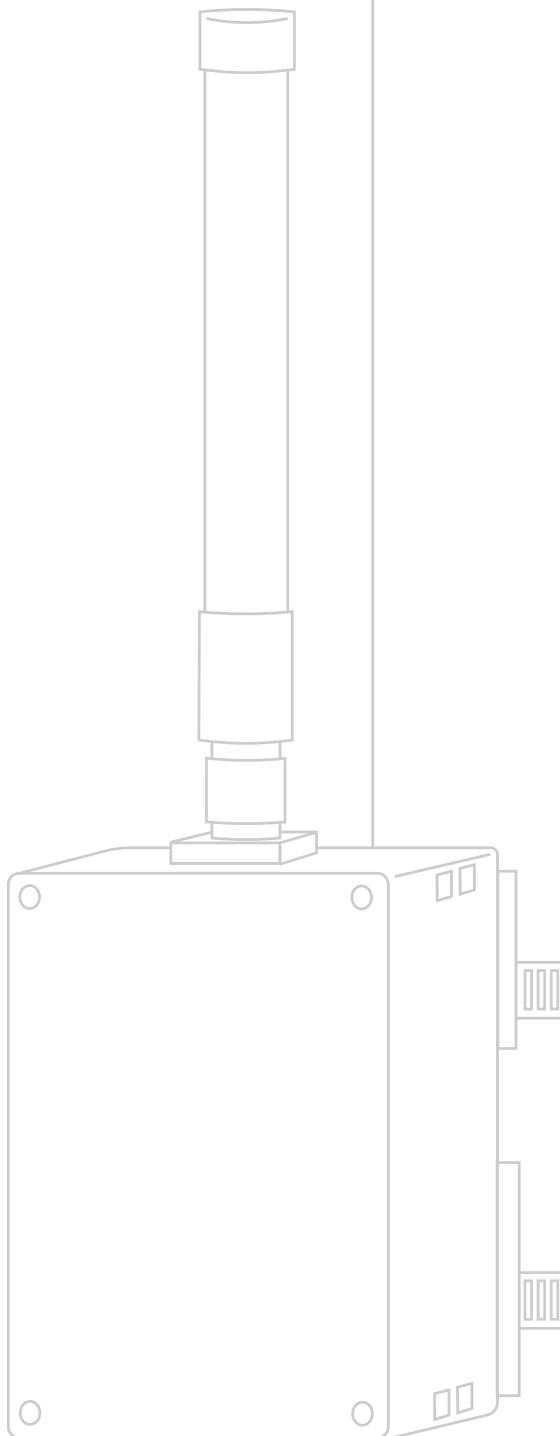


Add/remove devices to/from established sites, and configure them for desired communication intervals



Store Offline Activity

Store offline activity locally for transmission when a connection can be established to the cloud (or on-premises) server



RSTAR AFFINITY FIELD APPLICATION

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





AFFINITY

Watch our RSTAR Affinity
"How To" video to learn
more



ORICA
Digital Solutions

GroundProbe



MEASURAND

3vGeomatics

SYSCOM
Instruments

NAVSTAR