



THREAD XC

THREAD EC

Elevate antenna and connect with an extended length coaxial cable to the R2T.

For outdoor installations, connect the R2T to the THREAD for immediate cloud connection and control of DT Series Data Loggers.

A single cable connects the R2T to the THREAD for power and communication interface.

**DT SERIES**  
DATA LOGGERS

**rstar** L900 SYSTEM  
ARRAY RADIO SERIES

	<b>PRODUCT CATEGORY:</b>
	READOUTS + DATA LOGGERS

# THREAD Gateways

powered by **sensemetrics**

Ideal for remote monitoring in both common and demanding geotechnical conditions, THREAD Gateways offer precise measurement and reliable data acquisition from various sensor types and gauges including vibrating wire, thermistor, DT-BUS, linear potentiometer, and strain gauge, via RSTAR as well as automated total stations, radar, GPS, environmental sensors and process controls. This allows users to combine data sets from a variety of site sensors including geotechnical, environmental, structural, spatial and process into a single cloud-based data management system..

The THREAD Gateway is offered in two models - the X-series for outdoor applications, and E-series for installation in protective enclosures or similar controlled environments. When used as a management device for RSTAR networks, the THREAD serves as a simple but powerful on-site controller that administrates the local wireless network and the secure transfer of all data to the cloud by means of cellular, mesh wireless, or Ethernet uplink. The THREAD provides local data storage for periods of disconnected operation, and dynamic remote management tools and comprehensive management of network performance for the entire family of DT loggers enabled with RSTAR. (more info at: [www.rstinstruments.com/rstar.html](http://www.rstinstruments.com/rstar.html))

MODELS >>	X	XC	E	EC
Mesh radio (up to 18 km)	✓	✓	✓	✓
Cellular enabled		✓		✓
Ethernet	✓	✓	✓	✓
Secondary enclosure required			✓	✓
AC or solar power	✓	✓	✓	✓
Internal temperature & barometric sensor	✓	✓	✓	✓

Sensor data can be viewed and analyzed using your browser by securely logging in to the sensemetrics cloud portal. New users can create an account and connect sensors within minutes, using the simple registration process, <https://app.sensemetrics.com/#register>: Additionally, data can be access programatically through the sensemetrics API using secure token access. Developers interested in information regarding the publicly available API can find documentation and examples online at <https://www.sensemetrics.com/api>

## > APPLICATIONS

Remote monitoring of various types of geotechnical instrumentation used in dams, tunnels, bridges, mines, and natural slopes.	Alarm triggering when movement reaches a preset critical rate or levels reach a present value.
Real time data acquisition and analysis.	
System is compatible with other types of site data such as automated total stations, radar, GPS, environmental sensors and process controls.	

## > FEATURES

Immediate functionality straight out of the box.	Weatherproof housing available.
Works with sensemetrics cloud based API and software for data collection and presentation.	
DT Series Data Loggers and/or RST Flexi-Mux multiplexers (see separate brochures at <a href="http://rstinstruments.com">rstinstruments.com</a> ) may be added to augment measurement and control additional geotechnical sensors that can be monitored by the THREAD.	
Controlling external devices such as pumps, motors, alarms, freezers, valves, etc.	Initiating measurement and control functions based on time or event.
Operating independently of AC power, computers, and human interaction.	Consuming minimal power from a 12 Vdc source.
Interfacing with on-site and telecommunication devices such as cellular modems, radio transceivers, and ethernet interfaces. See diagram on reverse.	

# THREAD Gateways

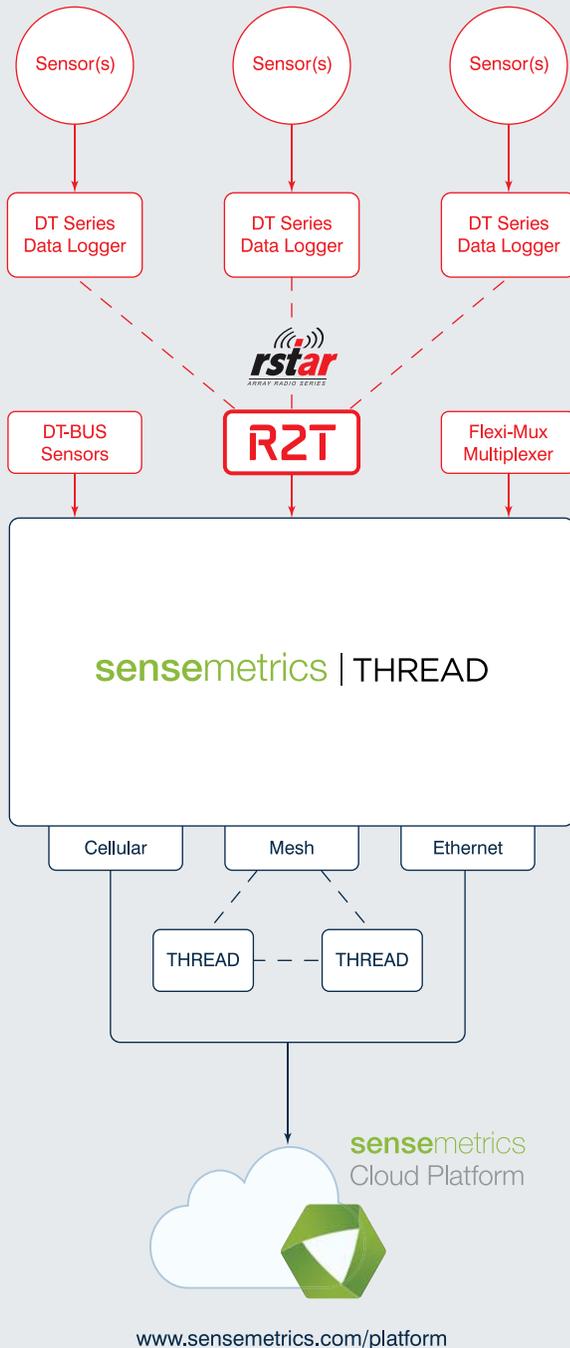
powered by **sensometrics**



PRODUCT CATEGORY:  
READOUTS + DATA LOGGERS

## SPECIFICATIONS + ORDERING

### COMMUNICATION METHODS



### ORDERING INFO

#### THREADS

THREAD Gateways are region specific and part numbers are defined according to radio frequency, wattage, and cellular networks.

Ordering Example:

THREAD XC for North America would be ordered as 'C01.X.02-900-GSM'

ITEM	PART #
THREAD XC	C01.X.02-...
THREAD X	C01.X.02-...
THREAD EC	C01.E.02-...
THREAD E	C01.E.02-...

#### RST COMPONENTS

RST RSTAR to THREAD RTU	R2T
Flexi-Mux Multiplexer	ELGL2042
DT2011B - Single Channel Vibrating Wire Data Logger	DT2011B
DT2040 - 20/40 Channel Vibrating Wire/Thermistor Data Logger	DT2040
DT2055B - 5/10 Channel Vibrating Wire/Thermistor Data Logger	DT2055B
DT2306 - Potentiometer Data Logger	DT2306
DT2350 - 2 Channel Load Cell Data Logger	DT2350
DT2485 - Digital Bus (DT-BUS) Data Logger	DT2485
DT4205 - 5/10 Channel 4-20mA Transmitter Data Logger	DT4205
DTL201B - Uniaxial Tilt Data Logger	DTL201B
DTL202B - Biaxial Tilt Data Logger	DTL202B



sensometrics cloud data management platform provides powerful tools for distributed sensor networks and data driven decision making.