rst INSTRUMENTS

Monitor
with
Confidence

TEL 604 540 1100
info@rstinstruments.com
www.rstinstruments.com

RST Instruments Ltd.
11545 Kingston St.,
Maple Ridge, BC V2X 0Z5 Canada

Certified System
ISO 9001

rstar ARRAY RADIO SERIES

DTSAA equipped with a radio and antenna kit for use in an RSTAR system. For this system, the radio antenna is easily screwed into a connector at the top of the DTSAA.

DTSAA ShapeArray Logger

The DT ShapeArray data logger is designed to measure a single ShapeArray sensor. It is a small form factor data logger powered by a single lithium primary battery.

ShapeArray instruments can be incorporated into a wireless data collection system by using the DT ShapeArray data logger. When configured in low-power mode, ShapeArray can log data with a battery-powered DT ShapeArray data logger. If configured with an RSTAR radio, the data logger will transmit data to a RSTAR hub allowing automated data conversions. Alternatively, DT ShapeArray can be ordered without a radio module or antenna to be used to automate data collection for manual retrieval.

> **INSTRUMENTS USING DTSAA**

Measurand ShapeArray up to 200 segments, configured in low power mode (for ShapeArrays with serial numbers higher than 350,000)

> **FEATURES**

HARDWARE:

Option for radio and antenna kit for incorporation into an RSTAR network.

Battery powered for remote sites

-40°C to 60°C (-40°F to 140°F) operating range

4MB memory

Weather resistant NEMA 4X (IP66) enclosure.

SOFTWARE:

User friendly Windows® host software included at no additional cost

Data stored in .dat format compatible with SAASuite Analysis Tools

> **BENEFITS**

✓ **Increased Installation Flexibility**

✓ **Decrease System Cost**

✓ **Wireless data transfer**

✓ **No external power supply required**

RSTAR RADIO ANTENNA
(wireless data collection)

DTSAA

PEDESTAL
ENCLOSURE
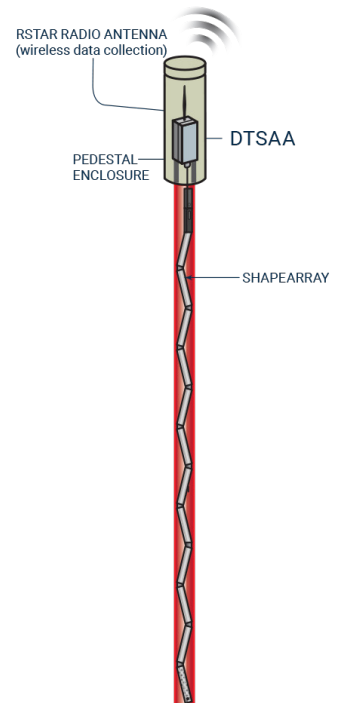
SHAPEARRAY

Typical application showing the DTSAA collecting data wirelessly from a ShapeArray instrument in an RSTAR or Stand-Alone Data Logging.

DT SERIES DATA LOGGERS

DTSAA Data Logger shown as a stand-alone unit - without radio antenna kit for wireless data collection (RSTAR).

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DTSAA ShapeArray Logger

#	PRODUCT CATEGORY:
	READOUTS + DATA LOGGERS

SPECIFICATIONS

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ITEM	SPECIFICATION
GENERAL	
Memory Records	Up to 8,000 segment readings
Power Source	Lithium D Cell Primary Battery
Battery Life	Typically 2 years with a 100 segment ShapeArray on 1 hour reading frequency and equipped with RSTAR L900 radio. See manual for recommended battery replacement schedules. Variables include ShapeArray length, reading frequency, ambient temperature, and telemetry option.
Communication	USB Type B connector (radio optional)
Dimensions	190 x 75 x 55 mm (7.48 x. 2.95 x 2.17 in.)
Temperature Range	-40°C to 60°C (-40° to 140°F)
Enclosure	NEMA 4X (IP66)
Range	Up to 14 KM (900MHz Line of Sight, see RSTAR Manual for more details)
DATA STORAGE	
Memory Size	4MB
Data Transfer	4,000 data points per second
Variable Rate Mode	16 user programmable sampling rates
Data Format	SAASuite Compatible .dat file
Memory Full Behaviour	"Wrap around" or "fill & stop" option

ORDERING

ITEM	PART #
DT ShapeArray Logger	DTSAA
Cable Gland Nut Wrench	DT100
Pole Mount Kit	DT20XX-M1
4" Secondary Enclosure	DT2011-SE

OPTIONS

RSTAR L900 - automated wireless data collection

The DT2011-SE Secondary Enclosure houses the DTSAA. The enclosure uses an 11mm nut driver to secure the removable cover.