

# DATA ACQUISITION SYSTEM

## DAS-RSTAR

DAS-RSTAR (Data Acquisition System) contains a Campbell Scientific CR800, an RSTAR L900 RTU, and other components required to automate data collection for one or more ShapeArrays.

DAS-RSTAR includes:

Logger enclosure

Campbell Scientific CR800 data logger

Logger-PC cable

Wiring and back panel

Enclosure mounting brackets<sup>1</sup>

L900 RTU RSTAR wireless unit

Antenna and cable with mount kit

SunSaver SS-10-12V charge regulator

50W solar panel and mounting bracket

All components are housed within a weatherproof NEMA 4-rated enclosure.

<sup>1</sup> Mounting pole not included Measurand recommends a 1.5" to 2" (trade dimension) galvanized steel pipe (max OD of 64 mm) that is long enough to stick up approximately 5' to 6.5' (1.5 m to 2 m) once installed.

# SPECIFICATIONS



## LOGGER ENCLOSURE

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ENCLOSURE	NEMA 4 Enclosure
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## INTERNAL COMPONENTS

COMPONENTS	RSTAR L900 RTU, SunSaver SS-10-12V Solar Charge Regulator, DIN Rail Power Terminals
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LOGGER	Cambell Scientific CR800 data logger
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## POWER SYSTEM

SOLAR PANEL	50 W Solar Panel and Mounting Bracket, 5 kg (10 lbs), 900mm x 600mm x 125mm (36" x 24" x 5")
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RECOMMENDED BATTERY (MODEM) <sup>1</sup>	12V, 75Ahr Non-Spillable, Absorbed Glass Mat (AGM), Deep Cycle Lead Acid Battery.
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RECOMMENDED BATTERY (NO MODEM) <sup>1</sup>	12V, 35Ahr Non-Spillable, Absorbed Glass Mat (AGM), Deep Cycle Lead Acid Battery
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## ACCESSORIES

Logger-PC Cable
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Antenna with cables and mount kit
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## PHYSICAL PROPERTIES

DIMENSIONS	500 mm x 400 mm x 250 mm (20" x 16" x 10")
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WEIGHT	18 kg (40 lbs)
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<sup>1</sup> Battery not supplied by manufacturer.

# NOTES

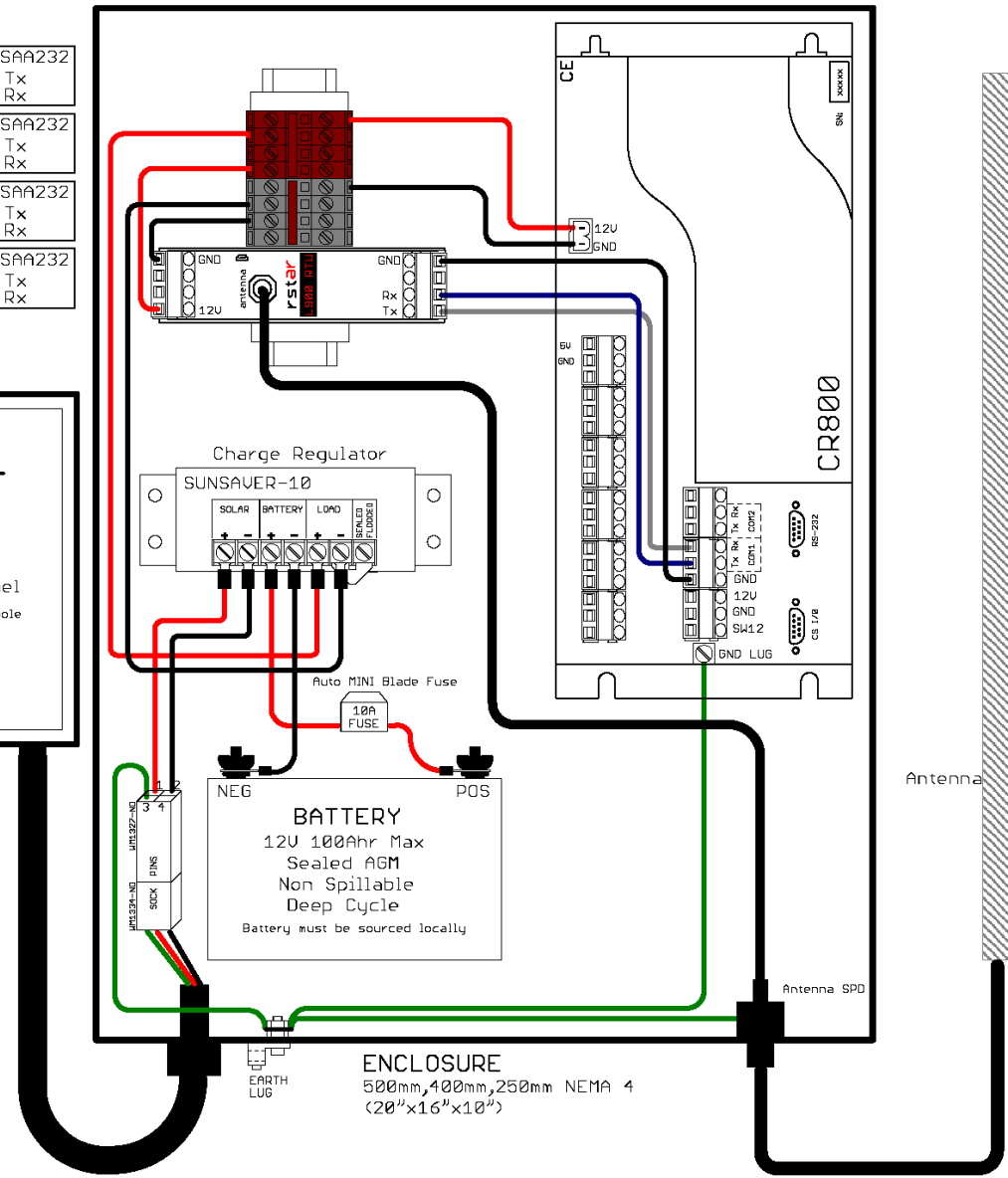


CR6-COMC1	SAA232
C2	white<- Tx
C1	blue -> Rx
CR300-COM1	SAA232
C2	white<- Tx
C1	blue -> Rx
CR800-COM1	SAA232
C2(Rx)	white<- Tx
C1(Tx)	blue -> Rx
CR1000-COM1	SAA232
C2(Rx)	white<- Tx
C1(Tx)	blue -> Rx

### 50W SOLAR PANEL

50W SOLAR PANEL Battery size 99Ahr MIN  
20W SOLAR PANEL Battery size 36Ahr MIN

Connect battery before solar panel  
Supplied mounting kit fits up to a 75mm (3") OD pole



**ENCLOSURE**  
500mm,400mm,250mm NEMA 4  
(20"x16"x10")