

SC503

ACTIVE DIGITAL SHUNT

1x Current Meter
SC503 - 500A of continuous current



2x SiCOM data connection port.
Allows additional connections (Daisy chain).

Temperature sensor
(-JST connector)
Included: Sensor NTC10K(1m).

2x Resistance input

Tank level sensors with a resistance output signal or a temperature sensor.

U1 voltmeter for the main battery

Extra voltmeter (U2) for either another bank battery or tank level sensor with a voltage output.

Simarine's high precision SC303 active digital shunt measures voltage, current and temperature of a battery or battery bank.

Additionally, it allows the monitoring of tanks for fuel, fresh and grey water.

Suitable for monitoring:

- Current draw of heavy consumers (inverters, bow and stern thrusters, anchor winches),
- current generators (shore power chargers and solar panels).

The SC503 has additional inputs to monitor fuel, fresh, grey and black water tank levels.

Operating	SC503
Power source voltage range	6 - 35 V
Temperature range	-20 – +70 °C
Power consumption at 12 V	
Operating	1.2 mA
Current measuring range	
Per channel	0,1 – 700 A
Accuracy	± 0,6 %
Resolution	0,01 A
Sampling rate	100 ms
Maximal current	
Continuous	500 A
Peak current (<1 min)	1000 A
Peak current (<5 min)	700 A
Voltage drop at 300 A	50 mV
Maximal voltage on connections	35 V
Voltage inputs	
Range	0 – 75 V
Resolution	1 mV
Accuracy	± 0,2 %
Sampling rate	100 ms
Resistance inputs	
Range	0 Ohm – 65 kOhm
Accuracy	± 3,0%
Temperature sensor – NTC 10k	
Range	-15 – +80 °C
Accuracy (-10 – 60 °C, 14 – 140 °F)	± 3,0%
Connectivity	
Batteries	1
Temperature sensors	3
Voltage sensors	2
SiCOM RJ9 Sockets	2
Installation and Dimension	
Dimensions (length x width x depth)	120 x 120 x 60 mm
Battery Connection	M 10 bolts