

## Dual Modbus RTU/ASCII ports to ModbusTCP Converter, Model SC10MK2 485 Series



Modbus is an industry adopted communication protocol based on RTU, ASCII, and TCP protocols for various applications. These three protocols are commonly used by various applications in the industry such as DCS, PLC, HMI, Power meters, Solar, various Sensor and Measuring instruments. SC10MK2 has 2 RS485/422 ports and converts between Modbus RTU/ASCII and Modbus TCP protocols. Users can easily integrate Modbus TCP and Modbus Serial devices. Configuration is by Web browser.

CPU : 32-bits ARM-Cortex-M4 CPU, 120 MHz  
RAM : 256 K Bytes SDRAM  
ROM : 1M Bytes Flash ROM

### Ethernet Port \* 1

Port Type : RJ45 Connector, 10 /100 M bps ( Auto Detecting )  
Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, Modbus ASCII, Modbus RTU  
Mode : TCP Server / TCP Client / UDP  
Setup : HTTP Browser Setup (IE & Netscape)  
Security : Login Password  
Protection : Built-in 1.5KV Magnetic Isolation

**Note : Modbus TCP Master : In the TCP Settings, the Port number needs to be different e.g. 502 & 503**

### Serial Port \* 2 ports

Port-1 : RS485, RS422, 4 Pin screw type connectors,  
Port-2 : RS422, RS485, 7 pin screw type connectors.  
RS-422 : Rx+, Rx-, Tx+, Tx- ( Surge Protected )  
RS-485 : Data+, Data- ( Surge Protected )  
Protection : 600W Surge Protection, Over current protection, 15KV ESD for all signals  
Speed : 300 bps to 230K bps  
Parity : None, Odd, Even, Mark, Space  
Data Bit : 5, 6, 7, 8  
Stop Bit : 1, 2

### Watch Dog Function

Built in RS422/RS485 Pull Up/Down Resistor for both ports  
Configuration Utility : Support Win-8, Win-7, Vista, Win-XP, Win-2003 server, Win-10  
LED Indications : SYS ( PWR ),Port1, Port2, LAN, ACK  
MTBF : > 100,000 hours

### Power

Power : 230V AC Range 165V AC to 265V AC  
: 3 Pin Screw type pluggable Terminals  
: DC Options: 48, 110, 220V DC  
Power Consumption : 2W

San Telequip (P) Ltd.,  
504, 505 Deroon Heights  
Pune 411 045, India  
Phone : +91-20-27293455, 9764027070, 8390069393  
email : [info@santelequip.com](mailto:info@santelequip.com)



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### **Mechanical**

Dimensions : 35 \* 131\* 112 mm (W \* D \* H)  
Weight : 500 gm  
Mounting : DIN Rail

### **Environment**

Operating Temperature : -10°C to 70°C  
Storage Temperature : -20°C to 85°C  
Humidity : 10 to 95%rh Non Condensing

### **Model Code Selection : SC10MK2 485 X YYY I**

SC10MK2 485 : Base Model for Dual Port Modbus RTU/ASCII to Modbus TCP Converter  
X : A for AC Supply. D for DC Supply  
YYY : 230 for 230V AC.  
: 48, 110, 220 for resp DC Input  
I : Internal Supply