

Analog Input to Modbus RTU Converter, Model SC AIS 40



Sensors are used to continuously monitor and control various process parameters. These measurements help improving processes for adhering to product specifications & improve product quality. Monitoring and controlling temperature, pressure, level, flow etc are common occurrences for any process. IO Converters convert the Analog & Digital data from Sensors to Modbus to be taken to SCADA for further processing

Specification

Hardware

CPU : 8 bits CPU
 RAM : 64KB Internal SRAM
 ROM : 256K bytes Flash ROM
 Watchdog : Built in H/W Watchdog timer
 Modbus RTU Slave

Analog Input

Resolution : 16 bits
 Input number : 4
 Current : 4 to 20 mA
 Voltage : 0 to 10 V
 Input Impedance : Voltage: 1.33M Ohm, Current: 120 Ohm
 Accuracy : mA +0.5%, V +- 1%.

Serial Interface

Port number : 1
 Port Type : RS-485 x 1 Port
 Connector : 2-pin Terminal Block
 Speed : 300 bps to 115.2 Kbps
 Parity : None, Odd, Even, Mark, Space
 Data Bit : 5, 6, 7, 8
 Stop Bit : 1, 2
 RS-485 : Data+, Data-
 Terminal Resistor : Built-in RS-485 pull high / low
 Protection : 485 Surge & Over Current and built in 15KV ESD protection

Power

Dual Inputs Redundant
 Input 1 : DC 9 to 24V, 500mA@ 12VDC, External Adapter
 Input 2 : Terminal Block

LED : PWR, Pair, Rx, Tx

Software features

Modbus : Convert Analog signal to Modbus protocol, Support Modbus RTU Slave
 OS Supported : Win 2000/2003/XP/Vista/Win 7/Win 8
 Configuration : Window Utility, Web Browser

Environment

Temperature : Operating : -10°C to 65°C.
 : Storage : -20°C to 70°C
Humidity : Operating : 10% to 95% non-condensing
 : Storage : 5% to 95% non-condensing

Physical

Dimension : 90 * 60 * 20 mm (W * D * H)
Weight : 140 gms
Mounting : Panel, Optionally with DIN accessories

Model Selection : SC AIS 40X

SC AIS : Base Model for Analog Inputs to Modbus Converter
4 : 4 Analog Inputs
0 : 2 * 4 to 20mA + 2 * 0 to 10V Inputs
0A : 4 * 4 to 20mA Inputs
0V : 4 * 0 to 10V Inputs

Application

