

Smart IO modules for RS-485 MODBUS data acquisition



Automotive - Marine - Industrial - Semiconductor - Pharmaceutical - Laboratory

Features:

- Portable low-cost IO modules addition to existing PLC/SCADA system
- Modbus connectivity on RS485 Network
- Wide range of baud rates for communication from 1200 BPS to 115.2K BPS
- IO modules used with the third party softwares via Modbus RTU protocol
- Interface with field devices to provide real-time data for SCADA/PLC/HMI
- Simple setup and easy handling
- Simple DaisyChain Connection without wiring
- Various types of IO Modules AI, AO, DI, DO, RTD, thermocouples are available
- Availability of universal Input (Current/Voltage/Thermocouple) Modules
- High resolution analog input modules
- Wide power input range from 10V to 60V DC
- Over voltage protection and 3000V DC isolation for communication
- User friendly setup software for configuration and troubleshooting
- Data acquisition software for data storage and Real-Time analysis on PC
- LEDs on every module for digital IO status, communication and power supply

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Smart IO modules
Analogue output module SIO-8AOU

Analogue outputs	8
Current/Voltage	±5V, ±10V, 0-5V, 0-10V, 4-20mA, 0-20mA
Offset	N/A
Resolution	12 bits (0-4095)
Drift	
Accuracy	+0.1% FS
Load	10V @ 10mA/500ohm

Temperature module SIO-6RTD / SIO-8TC / SIO-16TC

Input	6x RTD	8x thermocouple	16x thermocouple
Type	Platinum100/1000, CU50/100/1000, Nickel100/120/507.5/604, BALCO500		J, K, T, E, R, S, B, N
Connection	2 or 3 wire		2 wire
Resolution		16 bit	
Samples		2.5 samples sec	
Drift		'± 25ppm/°C	
Accuracy	+0.05% FS		+0.1% FS

Analogue input modules SIO-8AI/16AI/SIO-8AIV/16AIV/SIO-8AIU/16AIU/SIO-8AIU-H/16AIU-H

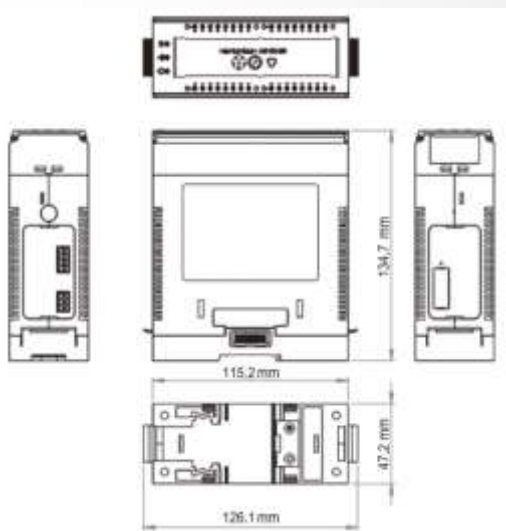
Input		8 or 16	
Type	Current	Voltage	Universal
Current/Voltage/Therm	+20, 4-20, 0-20mA	±1,±5,±10,0-1,0-5,0-10V	±1,±5,±1,±5,±10,0-1,0-5,0-1,0-5,0-10V,J,K,T,E,R,S,B,N
Resolution			16 bit
Sample rate			2.5 samples sec
Input protection	±10Vdc	±35Vdc	±35Vdc
Drift			'± 25ppm/°C
Accuracy			+0.1% FS

Digital modules SIO-8RO/16RO/SIO-16DI/32DI/SIO-16DO/32DO/SIO-16DIO/SIO-16DI8RO

Digital in/out	8 or 16	16 or 32	16 in & 16 out	16 in & 8out
In level	'-	0=0-3 & 1=10-50Vdc		
Out level	30Vdc/250Vdc, 5A	max 500mA @ 30Vdc		
Pulse width/freq.	15msec	100Hz/2.5kHz*	100Hz & 2.5kHz*	100Hz/15ms
# counters	'-	16 or 32 x16bit	16 x16bit	16 x16bit
Counter type	'-	up	up	up
Watchdog	0-25.5sec	0-25.5sec	0-25.5sec	0-25.5sec
Input filter	'-	'-	'-	'-

Smart IO general specifications

Power supply	10-60Vdc
Consumption	1.6-2.8W (16 relay 4.8W)
Isolation	3000Vdc
Size	115.2x47.2x134.7mm
Mounting	DIN rail with chain option
Communication	2 wire 485 MODBUS RTU protocol (address 0-247)
Baudrate	1200-115k BPS, 8-N-1/2, 8-E/O-1
Status indication	LED for every channel
Module watchdog	1.6sec



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(Subject to misprints)