IO-6020-485

Remote IO Module

Simple yet Open

- ✤ ARM Cortex 32-bits Processor
- ✤ RS485 X 1
- ✤ UI X 6& AO X 2
- ✤ Dip Switch Address
- ✤ Less IO Points
- ✤ Cost-effective
- ✤ Alarm Handler

Review

IO-6020-485 is provided with 6 analog inputs or can be converted to switching values through jumper, and 2 analog outputs. It supports standard BACnet MSTP and Modbus RTU, two of the largest open source communication protocols, collects switching and analog signals into the system.

Features

✤ Standard Open Source Protocol

Provided with two of the largest communication protocols in building-automation, BACnet MSTP and Modbus RTU, and able to monitor in real-time and communicate with upper layer software.

✤ High Precision Analog Channel Conversion

12-bits programmable gain amplifier (PGA) analog-to-digital converter (ADC) provide high precision resolution and analog input readings.

12-bits digital-to-analog converter (DAC) provides high precision analog output.

✤ Online Firmware Upgradable/Configurable

Controller can be upgraded and configured through RS485 connection.

Device Informations

Modal	IO-6020-485
Description	IO-6020 DDC-8446 Series: Remote IO Module (6UI/2AO)
Name	IO-6020

Device Parameters

Exterior	Size	86x134x62mm	
	Casing Material	UL 94 ABS+PC	
	Weight	183g	
Electrical Ratings	Power Supply	24V AC +/- 5% or 24V DC +20%/-15%	
	Power Consumption	<10W	
	Rated Current	1A at 24VAC/VDC	
	Operating Temperature	32 to 131 °F (0 to 55 °C)	
	Storing Temperature	-4 to 185 °F (-20 to 85 °C)	
	Operating Humidity	0% to 95% relative humidity, without condensation	
Input / Output	Analog Input (UI)	6 Channels, 12-bits with PGA	
		Voltage	0 - 10V (±0.01V), 0 - 5V (± 0.01V)
		Current	4 - 20mA (±0.01mA)， 0 - 20mA (±0.01mA)
		Resistance	0 - 50K
		Thermistor Sensor	NTC: 10K TYPE 2/3，3K，20K（±0.1°C） RTD: 1K Balco，1K Platinum（±0.2°C）
		True DI supported	
	Analog Output (AO)	4 Channels, 12-bits	
		Current: 0 - 20mA, 4 - 20mA (Max load resistance, 500Ω)	
		Voltage: 0 - 10V	
Communication	RS485	EIA-485 Standard Two Wire, Half Duplex, 1 Load	
	Modbus Baud Rate	9.6K, 19.2K, 38.4K, 57.6K,115.2K bit/s	
	BACnet Baud Rate	9.6K, 19.2K, 38.4K, 76.8K bit/s	
	Byte Length	8 bits	
	Parity	None, Even, Odd	
	Supported Protocols	Modbus RTU or Bacnet MSTP	