Mini DIO

Digital Input / Output

Device Description

Mini DIO (Digital Input/Output) Module can display on/off or 1/0 data for up to 4 channels. Input channels with high impedance reduce the input current and noise immunity is increased through hysteresis. The device has a anti-jumping filter to prevent contact from jumping. The device also has 32 bit change registers and these registers display the level changes in the input channels.

Mini DIO (Digital Input/Output) has 3 channels of isolated solid state relay output. Output channels are isolated from each other. The output type can be changed to latch or unlatch output with the specified time.

The user can configure input polarities, anti-jumper filter time, serial communication port settings and output latch time easily through Mini DIO user interface. User can also turn the "Test Mode" on the module. All the inputs and outputs are adjustable for site tests in the "Test Mode".

Device Specifications	
Supply Voltage Range	85 - 264 V_{AC} or 17-36 V_{DC}
Nominal Supply Voltage	230V_{AC} or 24V_{DC}
CPU	ARM Cortex-M0 32 Bit 48 Mhz
Flash	128 kB
RAM	16 kB
Watchdog Timer	System Reset / 5 sec
Power Consumption	0,5 w
Communication Specifications	
Communication Protocols	Modbus-RTU (Slave), IEC60870-5-104, IEC62056-21
Serial Interfaces	RS-485, Micro
Serial Communication Speed	1200bps – 115200bps

Digital Input Specifications	
Number of Digital Input Channels	4
Input Channel Voltage Range	0 – 36 V_{DC} / 0 – 150 V_{DC} (Shoud be defined on order)
Input Channel Isolation	Available, Isolated with Optocoupler
Input Current	1.5 mA / Channel
Input Filter	Programmable, Default: 20ms
Input Change Counter	32 Bit
Digital Output Specifications	
Number of Digital Output Channels	3 (Type Dry-Contact)
Output Channel Voltage Range	0 – 36 V_{DC} or 0-250 V_{AC}
Nominal Output Voltage	24 V_{DC} / 110 V_{DC} / 220 V_{AC}
Output Type	Dry-Contact Relay
Max. Output Current	5A
Load Type	Resistive, Inductive
Output Channel Isolation	Magnetically
Environment Conditions	
Standards	IEC 61326-1, EN 301489-1, IEC 61010-1, EN 60950-1
Operating Temperature	-25°C / +70°C
Storage Temperature	-40°C / +70°C
Operating Humidty	25% - 95% RH
Protection Class	IP20
Mechanical Specifications	
Device Dimensions (W x H x D)	35mm x 100mm x 115mm
Weight	250gr