IOMod 8DI8DO

industrial 8 digital inputs and 8 digital outputs module

IOMod 8DI8DO is a stand-alone Modbus (RTU), IEC 60870-5-101, and IEC 60870-5-103 digital input and digital output controller, designed to be used in industrial applications where digital signaling is used and robust communication.

IOMod 8DI8DO is an ideal solution for data acquisition, control, process monitoring, and remote measurement. Controlled over Modbus or IEC 60870 protocols, it can be connected in parallel with other equipment in SCADA systems.

When used with a WCC Lite gateway, it enables monitoring and control over Ethernet LANs or 3G/4G(LTE)/GSM/GPRS networks, facilitating remote monitoring, alarm management, and data logging on CloudIndustries.eu platform.

Features

- 8 digital inputs
- Configurable active input signal polarity or input inversion
- Configurable SPI, DPI, SCO, and DCO support
- Configurable feedback for outputs with inputs
- Configurable pulse outputs and permanent outputs
- Input grouping
- Output grouping
- Feedback configurable time
- 8 digital open collector outputs
- Galvanically isolated inputs and outputs
- Configuration over USB console
- Drag and Drop firmware upgrade over USB mass storage
- Modbus, IEC 60870-5-101 and IEC-60870-5-103 communication over RS485
- Software selectable termination resistor on RS485
- LED indication for input/output and data transmission
- Easy connection with WCC Lite gateway and CloudIndustries.eu platform

Applications

- Power Grid
- Solar energy projects
- Wind energy projects
- Hydro energy projects
- Energy storage applications
- Factory resources supervision
- Substation automation projects24v1
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Technical documentation

Ordering

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Inputs and functions

Digital inputs	8
Input voltage	12-24 VDC
Input signal polarity	Configurable
Input inversion	Configurable
Input filter	Configurable (0..256000ms)
Input grouping	up to 4 groups DPI
Digital outputs	8 (open collector)
Output current	<500mA (per output)
Output voltage	12..24VDC
Output functions	Permanent or Pulse output
Output pulse	Configurable in ms (0..60s)
Output feedback time	Configurable in ms (0..60s)
Output grouping	up to 4 groups DCO

Interface and communication

RS485 interface	ANSI/TIA/EIA-485-A-1998
Communication protocols	– Modbus RTU Slave; – IEC 60870-5-101 Slave; – IEC 60870-5-103 Slave.
Baudrate	600 – 115200 baud
Parity	None, Even, Odd
Terminating resistors	120 Ohm (configurable)

USB interface

Type	Mini USB
Use	Configuration/Firmware upgrade

Power supply

Auxiliary power supply	9-33VDC (full range)
Power consumption	40mA @ 12VDC, 20mA @ 24 VDC
Insulation voltage	3 kV

Operating conditions

Operating temperature	-40°C … 85°C
Storage temperature	-40°C … 85°C
Relative humidity	max. 95 % (non condensing)
Protection class	IP20

Dimensions and installation instructions

Case height x width x depth	119 x 17.5 x 101 mm
Installation type	DIN Rail mounting

Order Code

IOMOD-8DI8DO 8 Digital inputs and 8 digital outputs module with IEC 60870-5-103, IEC 60870-5-101, or Modbus RTU Slave protocol.