

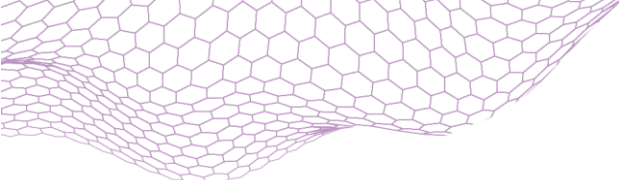


MODBUS RTU TO DIGITAL OUTPUT CONVERTER

DDRIO SERIES



DATA BRIDGE
D Y N A M I C



SYNOPSIS

- A DIGITAL OUTPUT TO MODBUS RTU CONVERTER IS AN INTERFACE DEVICE THAT RECEIVES COMMANDS FROM A MODBUS RTU MASTER (PLC, SCADA, HMI, DCS, OR OTHER CONTROLLERS) AND DRIVES EXTERNAL FIELD DEVICES THROUGH ITS DIGITAL OUTPUT CHANNELS.
- IT ACTS AS A SLAVE DEVICE ON AN RS-485 NETWORK, MAPPING ITS DIGITAL OUTPUTS TO MODBUS RTU COILS/REGISTERS. BASED ON MODBUS COMMANDS, THE CONVERTER CAN SWITCH OUTPUTS ON/OFF, ENERGIZE RELAYS, CONTROL SOLENOIDS, OPERATE ALARMS, OR TRIGGER EXTERNAL EQUIPMENT.
- THE DEVICE GENERALLY PROVIDES MULTIPLE ISOLATED DIGITAL OUTPUT CHANNELS (OPEN COLLECTOR TYPE), PROTECTION AGAINST OVERVOLTAGE/OVERCURRENT, AND LED INDICATORS FOR CHANNEL STATUS.
- THIS CONVERTER IS WIDELY USED IN INDUSTRIAL AUTOMATION, REMOTE CONTROL SYSTEMS, BUILDING MANAGEMENT, AND ENERGY DISTRIBUTION, WHERE CENTRALIZED CONTROLLERS NEED TO OPERATE FIELD EQUIPMENT USING MODBUS RTU.

FEATURES

- 12 Channel Digital Output
- Parameter Range, High and Low set points for each channel
- Acknowledge Input
- Modbus RTU, RS485 Output
- Compact Din Mount
- Multi-Function Display
- Provision to set Plug and play Device
- Industry Compliant
- Modular Architecture
- Rugged Durability

APPLICATIONS

- Process Automation
- Retrofit old machines with new devices
- Sub-station Automation
- Input to Output Expansion / Integration
- Building Automation
- Automotive Industry
- Process Optimization

PIN SETTINGS

- | | |
|----------------------|-----------------------|
| 1. Digital Output 01 | 9. Digital Output 09 |
| 2. Digital Output 02 | 10. Digital Output 10 |
| 3. Digital Output 03 | 11. Digital Output 11 |
| 4. Digital Output 04 | 12. Digital Output 12 |
| 5. Digital Output 05 | 13. DC24V + |
| 6. Digital Output 06 | 14. DC24V - |
| 7. Digital Output 07 | 15. RS485 A |
| 8. Digital Output 08 | 16. RS485 B |

TECHNICAL SPECIFICATIONS

HARDWARE

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

DIGITAL OUTPUT

Outputs	12 Channel Digital Output 0 VDC
Field signal type	Open collector (Sinking),(Current 200mA) Latch or One pulse
Isolation Type	Optically Isolated (2KV)
Protections	Up to 1500 Vrms for 1 Minute

SERIAL INTERFACE

Port number	1
Port Type	RS-485 * 1 Port
Connector	Terminal Block
Speed	9600 bps to 115.2 Kbps
Parity	None, Odd, Even
Data Bit	7, 8
Stop Bit	1
RS-485	Data+, Data-
Protection	485 Surge & Over Current and built in 15KV ESD protection

POWER

Operating Voltage	24 VDC
Power Consumption	Maximum 5 Watt
LED	PWR, Rx, Tx

DISPLAY FEATURES

Display	2 Digits Multi-Function Display
Modbus	MODBUS Setting (ID, Baud rate & Parity Setting)
Configuration	Push Buttons

ENVIRONMENTAL

Operating Temperature	0°C to + 70°C
Storage Temperature	-40°C to + 85°C
Operating Humidity	10% to 95% non-condensing
Storage Temperature	5% to 95% non-condensing

MECHANICAL

Dimension	23 * 100 * 150 mm (L * W * H)
Weight	150 gms
Mounting	Polyamide (PA66)

ORDERING CODE

DDRIO 12DO M

DDRIO	Databridge Dynamic Compact Remote IO's
12DO	12 *Digital Outputs
M	Modbus RTU