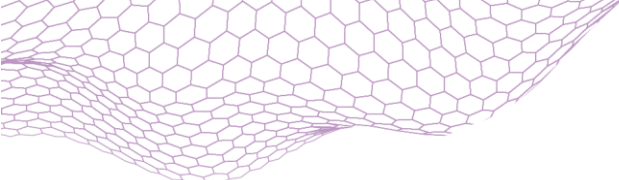




ANALOG INPUT TO MODBUS RTU CONVERTER

DDRIO SERIES

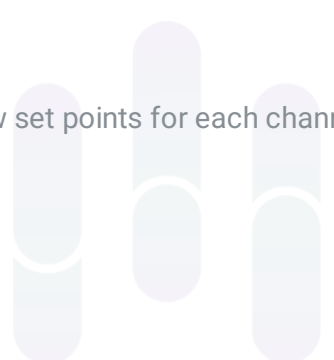




SYNOPSIS

- SENSORS ARE USED TO CONTINUOUSLY MONITOR AND CONTROL VARIOUS PROCESS PARAMETERS.
- THESE MEASUREMENTS HELP IMPROVING PROCESSES FOR ADHERING TO PRODUCT SPECIFICATIONS & IMPROVE PRODUCT QUALITY.
- MONITORING TEMPERATURE, PRESSURE, LEVEL, FLOW ETC ARE COMMON OCCURRENCES FOR ANY PROCESS.
- IO CONVERTERS CONVERT THE ANALOG INPUT DATA FROM SENSORS TO MODBUS TO BE TAKEN TO SCADA FOR FURTHER PROCESSING

FEATURES

- 
- 8 Channel 4-20mA /
 - 0-10V, 16-bit ADC
 - Parameter Range, High and Low set points for each channel
 - NPN output active on Alarm
 - 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. Analog Input 01 | 9. Analog Input 07 |
| 2. Analog Input 02 | 10. Analog Input 08 |
| 3. Analog Input 03 | 11. Digital Input 01 |
| 4. Ground | 12. Digital Output 01 |
| 5. Analog Input 04 | 13. DC24V + |
| 6. Analog Input 05 | 14. DC24V - |
| 7. Analog Input 06 | 15. RS485 A |
| 8. Ground | 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	

ANALOG INPUT

Resolution	16 bits
Input number	8
Current	4 to 20 mA
Voltage	0 to 10 V
Input Impedance	Voltage: 1.33M Ohm, Current: 120 Ohm
Accuracy	0.1 % FS
Isolation Type	Isolated (2KV) Analog to Digital

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 1 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 Humidity	5% to 95% non-condensing

MECHANICAL

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

ORDERING CODE

DDRIO 8AI M

DDRIO	Databridge Dynamic Compact Remote IO's
8AI	8 *Analog Inputs
M	Modbus RTU