

# TECHNICAL SPECIFICATION

## 4 channel 4-20mA to Modbus RTU and USB

## ADI-524



### Features

- Isolated 4-20mA
- 24bit SigmaDelta ADC
- 4 input channels
- Modbus RTU protocol
- USB to serial inbuilt converter
- One isolated 24V output for sensor supply
- Baud rate and address config by DIP switch
- Power supply from external source or USB
- 4-20mA device connection indicators
- Wide power supply range up to 36V
- DIN rail mounting
- Aluminium enclosure

The ADI-524 is 4 channel 4-20mA analog input interface converter to Modbus RTU over RS485 or over USB. It has 4 opto-isolated analogue inputs and RS485/USB output. Extra isolated 24V power supply for 4-20mA sensor/devices and DIP switch for baud-rate and address setting.

USB port make this device perfect to use with industrial computers and gateways with USB port. It can be mounted on standard DIN rail or by using clamps.

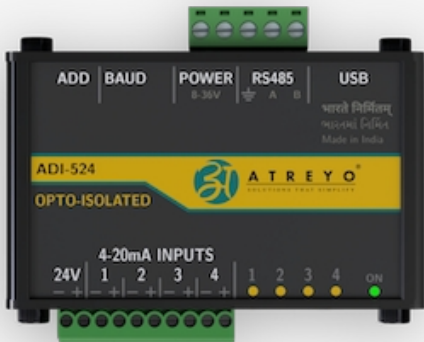
Description	Specification
<b>4-20mA inputs</b>	
Input number	4
Type	4-20mA isolated from rest of circuit. Not isolated from each other
Isolation	2kVAC for 60s
ADC converter	24Bit $\Delta\Sigma$ A/D
Isolated power out	24V 2W max, isolated form main and from inputs
Connector	Pluggable screw socket
<b>USB</b>	
USB port number	1
USB	USB 2.0
Connector	USB type B
Protection	IEC 61000-4-2 level 4: – 15 kV (air discharge)

Description	Specification
	– 8 kV (contact discharge)
<b>Serial RS485</b>	
Port number	1
Interface Type	RS485
Data Rate	9600, 19200, 38400, 115200
Signals	A and B and ground
Connector	Pluggable screw socket
Protection	IEC 61000-4-2 level 4: – 15 kV (air discharge) – 8 kV (contact discharge) Fail-safe receiver for bus open, short and idle
Modbus address	1-15
<b>System Functions Indicators</b>	
Indicators	4x input presence ACT – activity, power – dual

Description	Specification
<b>System Functions Indicators</b>	
	colour
	Serial – data send en receive
<b>System Support</b>	
<b>OS for USB</b>	Linux, Windows, MAC OS
<b>Modbus RTU</b>	All type PLC, gateways, computers etc. with Modbus RTU masters functionality
<b>Power Supply</b>	
<b>Voltage range</b>	8-36V DC or 5V from USB
<b>Consumption</b>	3W average
<b>Connector</b>	5 pin (+, -) pluggable screw

Description	Specification
	socket common with RS485
<b>Protection</b>	Surge
<b>Physical Characteristics</b>	
<b>Installation</b>	DIN-Rail, clamp
<b>Housing</b>	Aluminium
<b>Weight</b>	130g
<b>Dimensions</b>	88mm x 54mm x 35mm
<b>Environmental Specification</b>	
<b>Operating Temp.</b>	-25 ~ 85°C (-13 ~ 158°F)
<b>Storage Temp.</b>	-40 ~ 85°C (-40 ~ 176°F)
<b>Ambient RH</b>	5% to 95% (non-condensing)

Interface



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