TECHNICAL SPECIFICATION

ATREYO®
SOLUTIONS THAT SIMPLIFY

Atreyo Data Interface ADI-604

4-20mA interface x4 to LoRa

Features

- LoRa RF connectivity
- 4 opto-isolated 4-20mA inputs
- Separate isolated 24V power for sensors
- Inbuilt web-server
- Wide power supply range
- DIN rail mounting option
- Support PoE

The ADI-604 is industrial interface supporting data transfer form four 4-20mA analogue system to LoRa gateway. It has 4 opto-isolated inputs and 24V isolated powers supply for powering sensors. Compact design and inbuilt web-server for configuration make it convenient in installation and service.

ADI-604 supporting work in open radio frequency 866Mhz. Support RF power up to 20dB.

ADI-604 is made with high grade aluminium body. Optional DIN rail clamp make installation in panel boxes more convenient.

Description	Parameter
4-20mA inputs	
Input Number	4
Input type	Opto-isolated 4-20mA
Configuration	Common galvanic input with multiplexer system
Max V_{in}	28V DC
Accuracy	0.1% full scale
Linearity	0.1% full scale
AD conversion	16-bit ΔΣ ADC
Isolation	1kV
ESD protection	IEC/EN61000-4-2 Contact ±4kV with performance perf. Criteria B

Description	Parameter
Connector	Screw socket connector
Isolated power supply for sensors	
Supply number	1
Voltage	24V
Max load	1W
Isolation	1kV
LoRa Interface	
Band	866-868Mhz
Channels	40
Bandwitch	7.8khz, 10.4kHz, 15.6kHz, 20.8kHz, 31.2kHz, 41.7kHz, 62.5kHz, 125kHz, 250kHz, 500kHz

Description	Parameter
Power	11dBm, 14dBm, 17dBm, 20dBm
Factor	6, 7, 8, 9, 10, 11, 12
Software	
OS support	Any latest internet browser
System Functions	
Indicators	4 input signal indicators
	PWR – power indicator
	ACT – activity
Power supply	
Power	10-36V DC

Description	Parameter
Power consumption	Up to 4W
Physical Characteristics	
Installation	Clamp, DIN-Rail Mounting (optional)
Housing	Aluminium
Weight	0.5kg
Dimensions	88mm x 92mm x 28mm
Environmental Specification	
Operating Temp.	-25 ~ 70°C (-13 ~ 158°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 176°F)
Ambient RH	5% to 95% (non-condensing)

Disclaimer

- All dimensions mentioned in the drawings are not to scale and may vary/differ due to construction contingencies and site conditions which are subject to change as may be decided by the company.
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