



Features

- GSM and Ethernet connectivity
- Opto-isolated Modbus RTU interface
- 2 digital inputs with SMS alert option
- Inbuilt website for configuration
- Configuration by SMS, website or server
- Support PoE
- Wide power supply range
- GSM signal strength level indicator
- RX/TX indicators
- TCP/IP and JSON string format
- Modbus data archive in internal memory
- DIN rail mounting

The AG-801 is an industrial gateway for remote control of Modbus RTU devices. Gateway is working by GSM network and support two-way communication. Opto-isolation on Modbus interface make device more safe and protect from surges. In addition Gateway has 2 opto-isolated digital inputs with SMS alert support.

Internal website for configuration make implementation easy and quick. Compact design of AG-801 from high grade aluminium make it very easy to install and service. Standard DIN rail clamp make installation in panel boxes more convenient.

Description	Parameter
Serial Interface	
Interface Type	RS485
Data Rate	1200bps ~ 921600bps
Signals	A and B
Data Length	7, 8 bits
Parity	Odd, Even, None
Stop Bits	1, 1.5, 2
Flow Control	None
Connector	Pluggable screw socket
Protection	Opto-isolated 2.5kV RMS per UL 1577 IEC 61000-4-2 level 4: - 15 kV (air discharge) - 8 kV (contact discharge) MIL STD 883C-Method 3015-6: class 3. (human body model)

Description	Parameter
Serial Interface	
	Fail-safe receiver for bus open, short and idle
GSM Interface	
Band	Quad-band 850/900/1800/1900MHz GSM
Slot	GPRS multi-slot class 12/10
Link	GPRS class 12: max. 85.6 kbps (downlink/uplink)
Power	Compliant to GSM phase 2/2+ - Class 4 (2 W @ 850/900MHz) - Class 1 (1 W @ 1800/1900MHz)
SIM card	MicroSIM, push-pull type holder 3V/1.8V. Support 3G and 4G SIM but data package has to be enable GSM/GPRS.

Description	Parameter
Antenna Connector	SMA female
Ethernet	
Number	1
Type	10/100M ports with RMII interface
PoE	PoE class A
Data to Server Protocol	
Protocol type	TCP/IP and JSON
Authorisation	By authorisation key
Communication type	Dual way by TCP/IP
	One way in JSON (Gateway to server)
Digital Inputs	
Input number	2
Input type	Opto-isolated 2.5kV
Configuration	Separate IN-GND
Connector	Pluggable screw socket
System Functions Indicators	
Indicators	PWR - power indicator
	ACT - activity
	TXD - data indicator
	RXD - data indicator
	GSM level indicator in 4 LED

Description	Parameter
System Functions Indicators	
	Digital input active indicator
Software	
OS support	Any latest internet browser
Power supply	
Connector	3 pin (+, -, earthing) Pluggable screw socket
Power Voltage range	10-36V DC
Power consumption	3W average
Protection	Reverse polarity
	Over voltage
Physical Characteristics	
Installation	DIN-Rail
Housing	Aluminium
Weight	~ 0.5kg
Dimensions	88mm x 92mm x 32mm
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)





Copyright

Copyright © 2021 Atreyo Research and Development LLP. This technical specification is protected under national and international copyright laws. No part of this user manual may be reproduced, distributed, translated, or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or storing in any information storage and retrieval system, without the prior written permission of Atreyo Research and Development LLP. Copy or use any part of this specifications is prohibited without the prior written permission from the Atreyo Research and Development LLP. Atreyo Research and Development LLP shall not unreasonably withhold or deny such consent but shall be entitled to receive additional equitable remuneration in connection with its grant of consent.

Trademarks

Atreyo and the Atreyo logo are registered trademarks of Atreyo Research and Development LLP.

All other trademarks and copyrights are the property of their respective owners.

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.
- The specifications and amenities mentioned in this document and promotional documents are only representational and informative. The descriptions in this specification are based on the default configuration of your device.
- Images used in this specification may differ in appearance from the actual product.
- The Atreyo Research and Development LLP reserves rights to make additions, deletions, alterations or amendments as and when it deems fit and proper, without any prior notice.

**Atreyo Research
& Development LLP**

**+91 9727741417
info@atreyo.in**

414, Sunrise Mall, Mansi Circle,
Vastrapur
Ahmedabad 380015, India