



Features

- 3 independent NO/NC outputs
- Opto-isolated Modbus RTU
- 2 opto-isolated digital inputs with SMS support
- Astronomical timer
- Internal website for configuration
- LAN with PoE
- GSM four band connectivity
- Output control from server and by SMS
- Modbus archive data in internal memory
- Aluminium compact size casing
- DIN rail mounting

The AG-811 is a Gateway dedicated to work with CCMS systems. It supports two-way communication with server. Also, it has an inbuilt timer with 16 on/off schedules within 24h and an auto-configurable sunrise/sunset timer based on location. AG-811 has a Modbus RTU interface to communicate with energy meters and other Modbus devices. AG-811 can be configured by: internal website, SMS, string from server, and setting file loaded in a predefined URL.

Gateway is for use in street light control panels and other applications where it is needed to control accurate on/off time and support Modbus devices. AG-811 can be controlled remotely from server or via SMS.

AG-811 has 3 independent relays with NO/NC outputs. Every output can be controlled by a separate time schedule.

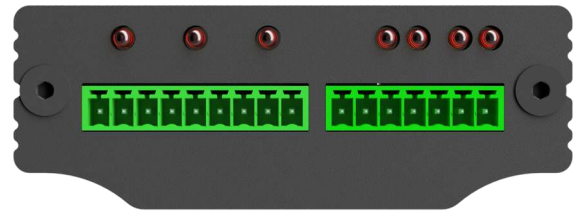
Description	Parameter
Serial Interface	
Interface Type	RS485
Data Rate	1200bps ~ 921600bps
Signals	A and B
Data Length	7, 8 bits
Parity	Odd, Even, None
Stop Bits	1, 1.5, 2
Flow Control	None
Connector	Pluggable screw socket
Protection	Opto-isolated 2.5kV RMS per UL 1577 IEC 61000-4-2 level 4: - 15 kV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

Description	Parameter
	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 enabled GSM/GPRS.
Antenna Connector	SMA female

Description	Parameter
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)
Encryption support	SSL on GSM only (TLS1.0)
Digital Inputs	
Input number	2
Input type	Opto-isolated 2.5kV
Configuration	Separate IN-GND
Connector	Pluggable screw socket
Relay Outputs	
Output number	3
Output type	NO/NC
Load _{max}	3A 230V AC or 3A 30V DC
Connector	Pluggable screw socket
System Functions Indicators	
Indicators	PWR – power indicator
	ACT – activity
	TXD – data indicator
	RXD – data indicator

Description	Parameter
	GSM level indicator in 4 LED
	Digital input active indicator
Configuration and System	
Configuration method	SMS specific commands
	Internal website
	String from TCP/IP server
	Remote or local configuration file
System protection	Watchdog
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)





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