

SMG-WSR、SMG-ESR Open Protocol Gateway

1. General

1.1 function

The Open Protocol Gateway SMG-WSR and SMG-ESR (hereinafter referred to as the Gateway) is a flexible configuration data protocol converter for MQTT cloud users on the IOT. It mainly supports the conversion of Modbus-RTU device data to JSON format and transmitted through the MQTT. The gateway's built-in web system supports configurating the gateway network parameters, cloud MQTT parameters, etc., And able to upload, check, and delete of device communication model files, device management files, and device rule files through the local web system. Data collection, cloud reporting, and remote control can be achieved through MQTT. The gateway complies with TH35-7.5 rail.

1.2 approvals and certificate

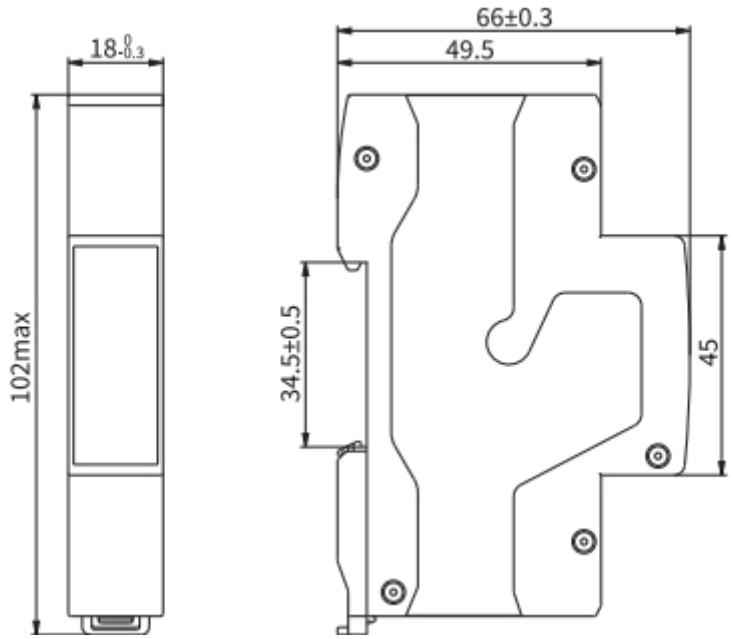
Standard: IEC 62368-1:2020+A11:2020

certification CE, RoHS, REACH

2. Technical data

Product	SMG-WSR	SMG-ESR
Input voltage(V)	DC12	
Operating ambient temperature(°C)	-25-70	
Storage temperature(°C)	-40-70	
Applicable altitude(m)	<=2000	
Communication mode (to upstream)	Wi-Fi	Ethernet
Protocol (to upstream)	MQTT	
Communication mode (to downstream)	RS485	
Protocol (to downstream)	Modbus-RTU	
Flame retardant rating	V-0	
Installation	Type TH35-7.5 standard DIN rail	
Pollution degree	3	
Protection degree	IP20	

3. Overall and mounting dimensions (mm)



SMG-	-	W	SR	DC12V	open prot	(ANT 3m)
Category		**Upstream communication mode**	**Downstream communication mode**	**Input voltage**	**Upstream protocol**	**Antenna length**
Smart Gateway		W: WiFi E: Ethernet	SR: RS485	DC12V	open prot: open protocol Blank: private protocol, only for CHINT platform	ANT 3m: WiFi antenna length=3 meters ANT 5m: WiFi antenna length=5 meters ANT 10m: WiFi antenna length=10 meters Blank: no WiFi antenna

Upstream communication mode	Input voltage	Antenna length	Description	Code
WiFi	DC12V	3m	SMG-WSR DC12V open prot (ANT 3m)	569746
WiFi	DC12V	5m	SMG-WSR DC12V open prot (ANT 5m)	569747
WiFi	DC12V	10m	SMG-WSR DC12V open prot (ANT 10m)	569748
Ethernet	DC12V	/	SMG-ESR DC12V open prot	582698