

ReVizor R2

Technical Specifications



Contents

1 Product Introduction	1
2 Abbreviation.....	1
3 Appearance and Structure	2
4 Functions.....	2
4.1 Main Functions:	2
5 Main Technical Specifications	3
5.1 Communication Protocol&Technical Index	3
5.2 RF Performance Index	4
5.2.1 Frenquency Range.....	4
5.2.2 Transmission Power	4
5.2.3 Receiving Sensitivity	4
5.3 Antenna	4
5.4 Relay Main Performance Index	5
5.5 Power Socket Module Performance Index.....	6
5.6 Working Conditions	6
6 Main Performance Index.....	7

1 Product Introduction


REVIZOR R2 is suitable for controlling electrical appliances which power consumption less than 3000W in household or office. It is universal for all kinds of indoor power supply sockets, mainly applied for house and office usage. It is not suited for industry application, especially in humidity or dust condition.

Model No.	Types	Frequency	Remark
REVIZOR –R2	GSM Power Socket	EGSM900MHZ/DCS1800MHZ	

2 Abbreviation

Abbreviation	Full Name
GSM	Global System for Mobile Communications
GPRS	General Packet Radio Service
SIM	Subscriber Identification Module
SMS	Short Message Service
PPP	Point-to-point Protocol
ESD	Electronic Static Discharge
EMC	Electro Magnetic Compatibility
EMI	Electro Magnetic Interference
ABS	Acrylonitrile Butadiene Styrene
PVC	Polyvinylchloride
PMMA	Acrylic
RUBBER	Silicone rubber

3 Appearance and Structure

Contents	Description	Remark
Appearance		
Material	ABS flame-resisting shell; PVC plug components and temperature sensor; PMMA light pipe; Rubber plug	
Power interface plug	Suitable for European standard CEE 7/7 hybrid Schuko/French plug	
Power interface socket	Suitable for European standard CEE 7/7 hybrid Schuko/French plug and CEE7/4 Geman “schuko” socket	
	Product size: 160x63x54mm, 160x63x92mm(including plug) Net weight: 340g, gross weight: 460g	
	Temperature sensor port	
	USB Port	
Installation	Insert to CEE7/4 Geman “schuko” socket	

4 Functions

4.1 Main Functions:

- Suitable for CEE 7/7 hybrid Schuko/French plug and CEE7/4 Geman “schuko” socket;
- This socket uses a GSM SIM card.

- Remotely operate by SMS command: The socket be controlled and set by sending SMS commands.
- Input: 110V-250V/50Hz.
- Output: Max.15A for long-duration operation.
- Relay: 30A/250V relay with two working status power on/off for output outlet.
- M button: To manual control output power on/off.
- Delayed control socket output.
- Auto operates by preset schedule: Fixing-time control output power on/off.
- External temperature sensor supported: Send environmental temperature SMS to mobile phone.
- Auto operates by temperature: Available for power control of the heating or refrigeration plant, to keep the environmental temperature within presetting range or at fixed temperature value.
- SMS alarm when temperature rapid-changing or reaching the pre-set value: When it detects the rapid-changing or the reach of pre-set alert value of surroundings temperature, it can auto-send the SMS alarm message to master's mobile phone.
- Support 5 mobile phone users.
- Auto time-synchronization.
- SMS notification upon external power changing.

5 Main Technical Specifications

5.1 Communication Protocol&Technical Index

Accessing Way	GSM
Working Frequency	EGSM 900/ DCS 1800
Communication Protocol	PHASE 2/2+ (including data service)
Speech Coding	8 kHz & 16 kHz Voiceband Codec
Receiving/Sending Frequency Interval	45MHz for EGSM 900 95MHz for DCS 1800 Or 45MHz for GSM 850

	80MHz for PCS 1900
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5.2 RF Performance Index

5.2.1 Frequency Range

Name	Sending Band (MHz)	Receiving Band(MHz)
EGSM	880~915 MHz	925~960MHz
DCS	1710~1785MHz	1805~1880MHz

5.2.2 Transmission Power

Name	Transmission Power
EGSM	Class4 (2W)
DCS	Class1 (1W)

5.2.3 Receiving Sensitivity

ARCN		GSM900	DCS1800
classII RBER(%) (dBm)	Static referring sensitivity (-102)	≤2.439%	≤2.439%

5.3 Antenna

Voltage standing wave ratio	1.5: 1 Maximum
Magnitude ratio	At least 0dbi for one direction
Input impedance	50 Ω
Polarization form	Vertical form

5.4 Relay Main Performance Index

Insulation resistance		1000M Ω (500VDC)
Dielectrics voltage-resistance	Coil and contact	4000VAC 1min
	Contact disconnects	1200VAC 1min
Action time(rated voltage)		≤ 20 ms
Release time(rated voltage)		≤ 5 ms
Impact	Stability	2000m/S ² (20g)
	Strength	1000m/S ² (20g)
Vibration		10HZ~55hz 1.5mm double amplitude
Temperature range		-40 $^{\circ}$ C~70 $^{\circ}$ C
Humidity		35%~95% RH, 40 $^{\circ}$ C
Terminal form		Quick connection
Weight		About 55g
Assembly method		Dustproof

5.5 Power Socket Module Performance Index

No.	Item	Description
1.	Rated input voltage range	AC100V-240V
	Tolerance input voltage range	AC90V-264V
2.	Rated frequency	50-60Hz
	Tolerance frequency range	47-63Hz
3.	Maximum rated input current	0.5 A RMS Max
4.	Surge current	60 A Max .at 230vac cool start 30 A Max .at 115vac cool start
5.	Leakage current	0.25mA
6.	Efficiency	70%Min.
7.	No-load loss	<0.5W Max.
8	Output voltage	12VDC
9.	Output current	1A
10	Linear regulating rate	± 1%
11	Tolerance output voltage	±5%
12	Short circuit protection	Output closed and reversion started
13	Ripple voltage	150mV Max
		Input:(100V-240VAC) Output: fully loaded

5.6 Working Conditions

Working Temperature	-20C — +55C
Storage Temperature	-20C — +70C

6 Main Performance Index

No.	Description	Index	Remark
1	Alternating current input range	AC110~250V	
2	Loaded maximum working current	16A	
3	Maximum surge current	70A	
4	Relay shifting current	100mA	
5	Working current	110~180mA	
6	Socket power module input	AC120~240V	
7	Socket power module output	12V/1A	
8	Super capacitor maximum lasting time after power is cut off	15S~18S	
9	External temperature sensor	-10C~50C	