

Chapter VII SR Technical Parameters

7.1 SR-12MRAC/SR-22MRAC technical parameters

Type Parameter	SR-12MRAC	SR-22MRAC
Power:		
Power voltage	100~240VAC	100~240VAC
25°C clock keeping time	80 Hours	80 Hours
Real time accuracy	Max ±5s/day	Max ±5s/day
Digital input:		
Input points	8 (A0~A5, B4~B5)	14 (A0~A7, B0~B5)
Input voltage	0~240VAC	0~240VAC
Input signal 0	0~40VAC	0~40VAC
Input signal 1	85~240VAC	85~240VAC
Delay time from 1 to 0	50ms	50ms
Delay time from 0 to 1	50ms	50ms
Relay output:		
Output points	4(QA0~QA3)	8(QA0~QA7)
Output type	Relay output	Relay output
Output voltage	0~240VAC	0~240VAC
	0~24VDC	0~24VDC
Output current	Resistor load: 10A	Resistor load: 10A
	Inductive load: 2A	Inductive load: 2A
Response time from 1 to 0	8ms	8ms
Response time from 0 to 1	10ms	10ms
Light Load (25,000 Switch Cycle)	1000W(230/240VAC) 500W(115/120VAC)	1000W(230/240VAC) 500W(115/120VAC)
Fluorescence Light with electronics controlling equipments (25,000 Switch Cycle)	10x58W(230/240VAC)	10x58W(230/240VAC)
Fluorescence Tube with conventional compensation (25,000 Switch Cycle)	1x58W(230/240VAC)	1x58W(230/240VAC)
Fluorescence Tube without compensation (25,000 Switch Cycle)	10x58W(230/240VAC)	10x58W(230/240VAC)
Short circuit protection cos1	Power protection B16	Power protection B16

	600A	600A
Short circuit protection cos0.5~0.7	Power protection B16 600A	Power protection B16 600A
Output relay protection	B16 Max 20A	B16 Max 20A
ON/OFF frequency:		
Mechanical frequency	10Hz	10Hz
Resistor load/light load	2Hz	2Hz
Inductive load	0. 5Hz	0. 5Hz

7.2 SR-12MRDC/SR-22MRDC technical parameters

Type Parameter	SR-12MRDC	SR-22MRDC
Power:		
Power voltage	12~24VDC	12~24VDC
Clock remain time at 25°C	80 Hours	80 Hours
Real time clock accuracy	Max ±5s/day	Max ±5s/day
Inputs:		
Input points	8 (A0~A5, B4~B5)	14 (A0~A7, B0~B5)
Digital inputs	6(A0~A5)	12(A0~A7, B0~B3)
Analogue inputs	6(A0~A5)	8(A0~A7)
Input voltage range	0~24VDC (digital inputs)	0~24VDCdigital inputs)
	0~10VDC (analogue inputs)	0~10VDC (analogue inputs)
Input signal 0	0~5VDC	0~5VDC
Input signal 1	10~24VDC	10~24VDC
Delay time from 1 to 0	50ms	50ms
Delay time from 0 to 1	50ms	50ms
Relay output		
Output points	4(QA0~QA3)	8(QA0~QA7)
Output type	Relay Output	Relay Output
Output voltage	0~240VAC	0~240VAC
	0~24VDC	0~24VDC
Output current	Resistor load 10A	Resistor load 10A
	Inductive load 2A	Inductive load 2A
Response time from 1 to 0	8ms	8ms
Response time from 0 to 1	10ms	10ms

Light Load (25,000 Switch Cycle)	1000W(230/240VAC) 500W(115/120VAC)	1000W(230/240VAC) 500W(115/120VAC)
Fluorescence Light with electronics controlling equipments (25,000 Switch Cycle)	10x58W(230/240VAC)	10x58W(230/240VAC)
Fluorescence Tube with conventional compensation (25,000 Switch Cycle)	1x58W(230/240VAC)	1x58W(230/240VAC)
Fluorescence Tube without compensation (25,000 Switch Cycle)	10x58W(230/240VAC)	10x58W(230/240VAC)
Short circuit protection cos1	Power protection B16 600A	Power protection B16 600A
Short circuit protection cos0.5~0.7	Power protection B16B16 600A	Power protection B16 600A
Relay output protection	B16 Max 20A	B16 Max 20A
ON/OFF frequency:		
Mechanical frequency	10Hz	10Hz
Resistor load/light load	2Hz	2Hz
Inductive load	0. 5Hz	0. 5Hz

7.3 SR-12MTDC/SR-22MTDC technical parameters

Type Parameter	SR-12MTDC	SR-22MTDC
Power:		
Power voltage range	12~24VDC	12~24VDC
Clock remain time at 25°C	80 小时	80 小时
Real time clock accuracy	Max ±5s/day	Max ±5s/day
Inputs:		
Input points	8 (A0~A5, B4~B5)	14 (A0~A7, B0~B5)
Digital inputs	6(A0~A5)	12(A0~A7, B0~B3)
Analog inputs	6(A0~A5)	8(A0~A7)
Input voltage range	0~24VDC (digital)	0~24VDC (digital)
	0~10VDC (analog)	0~10VDC (analog)
Input signal 0	0~5VDC	0~5VDC
Input signal 1	10~24VDC	10~24VDC
Delay time from 1 to 0	50ms	50ms

Delay time from 0 to 1	50ms	50ms
Transistor outputs:		
Output points	4(QA0~QA3)	8(QA0~QA7)
Output types	NPN Type Transistor output	NPN Type Transistor output
Output voltage	0~24VDC	0~24VDC
Output current	2A	2A
Response time from 1 to 0	8ms	8ms
Response time from 0 to 1	8ms	8ms

7.4 SR-12MGDC/SR-22MGC technical parameters

Type Parameter	SR-12MGDC	SR-22MGDC
Power:		
Power voltage range	12~24VDC	12~24VDC
Clock remain time at 25℃	80 小时	80 小时
Real time clock accuracy	Max ±5s/day	Max ±5s/day
Inputs:		
Input points	8 (A0~A5, B4~B5)	14 (A0~A7, B0~B5)
Digital inputs	6(A0~A5)	12(A0~A7, B0~B3)
Analog inputs	6(A0~A5)	8(A0~A7)
Input voltage range	0~24VDC (digital)	0~24VDC (digital)
	0~10VDC (analog)	0~10VDC (analog)
Input signal 0	0~5VDC	0~5VDC
Input signal 1	10~24VDC	10~24VDC
Delay time from 1 to 0	50ms	50ms
Delay time from 0 to 1	50ms	50ms
Transistor outputs:		
Output points	4(QA0~QA3)	8(QA0~QA7)
Output types	PNP Type Transistor output	PNP Type Transistor output
Output voltage	0~24VDC	0~24VDC
Output current	2A	2A
Response time from 1 to 0	8ms	8ms

Response time from 0 to 1	8ms	8ms
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7.5 SR-20ERA/SR-20ERD/SR-20ETD/SR-20EGD technical parameter

1. SR-20ERA technical parameter

Parameter \ Type	SR-20ERA
Power	
Power voltage range	100~240VAC
Inputs:	
Input points	12 (X0~X7, Y0~Y3)
General digital inputs	12(X0~X7, Y0~Y3)
Input voltage range	0~240VAC
Input signal 0	0~40VAC
Input signal 1	85~240VAC
Delay time from 1 to 0	50ms
Delay time from 0 to 1	50ms
Relay outputs:	
Output points	8(QX0~QX7)
Output type	Relay outputs:
Output voltage	0~240VAC
	0~24VDC
Output current	Resistor load: 10A
	Inductive load: 2A
Response time from 1 to 0	8ms
Response time from 0 to 1	10ms
Light Load (25,000 Switch Cycle)	1000W(230/240VAC) 500W(115/120VAC)
Fluorescence Light with electronics controlling equipments (25,000 Switch Cycle)	10x58W(230/240VAC)
Fluorescence Tube with conventional compensation (25,000 Switch Cycle)	1x58W(230/240VAC)
Fluorescence Tube without compensation (25,000 Switch Cycle)	10x58W(230/240VAC)
Short circuit protection cos1	Power protection B16 600A

Short circuit protection cos0.5~0.7	Power protection B16 600A
Output relay protection	B16 Max 20A
ON/OFF frequency:	
Mechanical frequency	10Hz
Resistor load/ light load	2Hz
Inductive load	0. 5Hz

2. SR-20ERD technical parameter

Type Parameter	SR-20ERD
Power:	
Power voltage range	12~24VDC
Inputs:	
Input points	12 (X0~X7, Y0~Y3)
Digital inputs	12(X0~X7, Y0~Y3)
Input voltage range	0~24VDC (Digital inputs)
Input signal 0	0~5VDC
Input signal 1	10~24VDC
Delay time from 1 to 0	50ms
Delay time from 0 to 1	50ms
Relay outputs:	
Output points	8(QX0~QX7)
Output type	Relay Output
Output voltage	0~240VAC
	0~24VDC
Output current	Resistor load: 10A
	Inductive load: 2A
Response time from 1 to 0	8ms
Response time from 0 to 1	10ms
Light Load (25,000 Switch Cycle)	1000W(230/240VAC) 500W(115/120VAC)
Fluorescence Light with electronics controlling equipments (25,000 Switch Cycle)	10x58W(230/240VAC)

Fluorescence Tube with conventional compensation (25,000 Switch Cycle)	1x58W(230/240VAC)
Fluorescence Tube without compensation (25,000 Switch Cycle)	10x58W(230/240VAC)
Short circuit protection cos1	Power ProtectionB16 600A
Short circuit protection cos0.5~0.7	Power ProtectionB16 600A
Output relay protection	B16 Max 20A
ON/OFF frequency:	
Mechanical frequency	10Hz
Resistor load/light load	2Hz
Inductive load	0. 5Hz

3. SR-20ETD technical parameter

Type Parameter	SR-20ETD
Power	
Power voltage range	12~24VDC
Inputs:	
Input points	12 (X0~X7, Y0~Y3)
Digital inputs points	12(X0~X7, Y0~Y3)
Input voltage range	0~24VDC
Input signal 0	0~5VDC
Input signal 1	10~24VDC
Delay time from 1 to 0	50ms
Delay time from 0 to 1	50ms
Transistor output :	
Output points	8(QX0~QX7)
Output type	NPN Type Transistor output
Output voltage	0~24VDC
Output current	2A
Response time from 1 to 0	8ms
Response time from 0 to 1	8ms

4. SR-20EGD technical parameter

Type Parameter	SR-20ETD
Power	
Power voltage range	12~24VDC
Inputs:	
Input points	12 (X0~X7, Y0~Y3)
Digital inputs points	12(X0~X7, Y0~Y3)
Input voltage range	0~24VDC
Input signal 0	0~5VDC
Input signal 1	10~24VDC
Delay time from 1 to 0	50ms
Delay time from 0 to 1	50ms
Transistor output :	
Output points	8(QX0~QX7)
Output type	PNP Type Transistor output
Output voltage	0~24VDC
Output current	2A
Response time from 1 to 0	8ms
Response time from 0 to 1	8ms

7.6 Voice module technical parameter

Parameter	Conform standard
Receive signal automatically	CCITT-DTMF
Sent signal automatically	CCITT-DTMF
Record message	Record message Total 100 messages, the max length of each message is 15 seconds, and the total message length is 8 minutes

7.7 Remote receiver technical parameter

Items	Parameter
Power cost	1. 5W
Work frequency	VHF,UHF
Control distance	≤100 meters

7.8 SR series general technical parameter

Items	Standard	Conditions
Weather environment:		
Environment temperature	Cold: IEC-68-2-1	
	Hot: IEC-202	
Horizon installation		0~55℃
Vertical installation		0~55℃
Store/transportation		-40℃ to +70℃
Relative humidity	IEC68-2-30	From 5% to 95% without condensation
Air pressure		From 795 to 1080Kpa
Pollution	IEC68-2-42	SO2 10cm3/m3,4 days
	IEC-68-2-43	H2S1CM2/m3,4 days
Mechanical conditions:		
Protection type	54	IP20
Vibration	IEC68-2-6	From 10 to 57Hz (constant vibration length at 0.15mm) From 57 to 150Hz (constant acceleration speed 2g)
Brunt	IEC68-2-27	18 times (half sine 15g/11ms)
Fall	IEC68-2-31	Falling high 50mm
Free falling down (with package)	IEC68-2-32	1m
EMC:		
Static electricity discharge Level 3 8Kv air discharge, 6kVcontact discharge	Level 3	8Kv air discharge, 6kVcontact discharge
Electromagnetic field	IEC801-3	Field density 10V/M
Anti-interference	EN55011	Limit class B 1
Surge Pulse	IEC801-4	2KV (power line)
	Level 3	2KV (signal line)
IEC/VDE safety		
Insulation density	IEC1131	Reach requirement