

Relay Commands

Makes the second relay active.

Sample Command	Command		Relay Number		Relay Status		End Of Command
ro 2 1 ;	ro	space	2	space	1	space	;
	relay operate		2nd relay		active		

Makes the fourth relay deactive.

Sample Command	Command		Relay Number		Relay Status		End Of Command
ro 4 0 ;	ro	space	4	space	0	space	;
	relay operate		4th relay		deactive		

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Sample Command	Command		End Of Command
rl ;	rl	space	;
	relay list		

Alarm Commands

Sets the alarm at the specified date time. Note that, **minutes** can be set to **multiples of ten**. The week starts on Monday. At **Day Of Week Tab**, 1 stands for **Monday** and 7 for **Sunday**.

Sample Command	Command		Alarm Id		Repeat		Day Of Week		Hour		Minute		Relay Number		Status		End Of Command
as 1 1 7 23 50 7 1 ;	as	space	1	space	1	space	7	space	23	space	10	space	3	space	1	space	;
	alarm set				yes		Sunday						3rd relay		active		

Sets the alarm at the specified date time. Note that, **minutes** can be set to **multiples of ten**. The week starts on Monday. At **Day Of Week Tab**, 1 stands for **Monday** and 7 for **Sunday**.

Sample Command	Command		Alarm Id		Repeat		Day Of Week		Hour		Minute		Relay Number		Status		End Of Command
as 2 0 1 22 20 1 0 ;	as	space	2	space	0	space	1	space	22	space	20	space	1	space	0	space	;
	alarm set				no		Monday						1st relay		deactive		

Deletes the alarm according to the given id.

Sample Command	Command		Alarm Id		End Of Command
ad 1 ;	ad	space	1	space	;
	alarm delete				

Lists the alarms to the Arduino Serial Monitor.

Sample Command	Command		End Of Command
al ;	al	space	;
	alarm list		

Real Time Clock Commands

Sets the real time clock according to the given date time format.

Sample Command	Command		Year		Month		Date		Hour		Minute		Second		End Of Command
cs 2018 10 23 12 34 56 ;	cs	space	2018	space	10	space	23	space	12	space	34	space	56	space	;
	clock set														

Gets the date time from the real-time clock.

Sample Command	Command		End Of Command
cg ;	cg	space	;
	clock get		

Peripheral Commands ( Voltage, Current, Temperature )

Gets the peripherals values from ports.

Sample Command	Command		End Of Command
pg ;	pg	space	;
	peripheral get		

AlarmTask

Purpose:	ID								Repeat	DateTime										Relay Number			Status	
Bit Representation (Example):	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	1	1	1	1	1	
Range:	( 0 - 255 )								( 0    1 )	Day Of Week			Hour ( 0 - 24 )					Min( 0 - 5 )			( 0 - 7 )			( 0    1 )
Total Bits:	8 bits								1 bit	3 bits			5 bits					3 bits			3 bits			1 bit
Real Values (Example):	0								TRUE	Sunday			12					3			7			On
Bytes:	1 Byte								2 Byte															

RTC

Purpose:	YEAR						Month				Day					Hour					Minute						Second					
Bit Representation (Example):	0	0	1	0	1	0	0	1	0	0	1	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0
Mask	0xFC000000						0x03C000000				0x003E0000					0x0001F000					0x0000FC0						0x0000003F					
Range:	( 0 - 64 )						( 0    1 ) Day Of Week				Hour ( 0 - 24 )					Min( 0 - 5 )					( 0 - 7 ) ( 0    1 )											
Real Values (Example):	18						4				23					3																
Total Bits:	6 bits						4 bits				5 bits					5 bits					6 bits						6 bits					
Bytes:	1 Byte						2 Byte					3 Byte					4 Byte															