communication parameters

9600 Baud, 8 data bits, no parity, 1 stopbit (9600 8n1).

general format

Any command is termintaed by “return” (char #13). The commands are not case-sensitive. Every command sends a response, some with parameters:

- „ok“ or
- „error, h fuer hilfe“, in case of an error.

Timebase and timer values are always given as 6 digits hexadecimal value without leading “0x” (000000..ffffff).

The sockets counts from 1 bis 8, 0 means all sockets. The project “AVR based RS232 controlled dimmer“ have only one socket (number 1).

The status-byte has the following meaning:

bit 0: 1 = delayed ON running
bit 1: 1 = delayed OFF running
bit 2: 1 = single ON-OFF-ON or OFF-ON-OFF cycle runing
bit 3: 1 = perpetual cycle running
bit 4: reserved
bit 5: 1 = timebase „ON“ active
0 = timebase „OFF“ active
bit 6: 1 = first part of single cycle running
bit 7: 1 = socket ON
0 = socket OFF

command list

cmd	*argument*	*function*	*response*
a	0..8	immediate OFF, argument: socket nr	“ok” or “error”
b	0..8	delayed OFF argument: socket nr	“ok” or “error”
c	0..8	immediate ON, argument: socket nr	“ok” or “error”
d	0..8	delayed ON argument: socket nr	“ok” or “error”
e	0..8+00..ff	DIM, arguments: socket nr + dim value (32 < value < 224 for correct phase cut)	“ok” or “error”
f	0..8+000001..ffffff	SET timebase “ON”, arguments: socket nr + timebase in seconds	“ok” or “error”
g	0..8+000001..ffffff	SET timebase “OFF”, arguments: socket nr + timebase in seconds	“ok” or “error”
h		print help	help text + “ok”
i	0..8	DIM value += 1	dim value + “ok” or “error”
j	0..8	DIM value -= 1	dim value + “ok” or “error”
k	0..8	READ timebase “ON”, argument: socket nr	timebase “ON” + “ok” or “error”
l	0..8	READ timebase “OFF”, argument: socket nr	timebase “OFF” + “ok” or “error”
r		READ actual ON/OFF state of all sockets	byte with state of socket 1..8 + “ok” or “error”
s	0..8	READ status byte and running timer, argument: socket nr	status byte + running timer + “ok” or “error”
v		print version	version + “ok”
w	0..8	START single cycle, first “OFF”, then “ON”, argument: socket nr	“ok” or “error”
x	0..8	START single cycle, first “ON”, then “OFF”, argument: socket nr	“ok” or “error”
y	0..8	START perpetual cycle, first “OFF”, argument: socket nr	“ok” or “error”
z	0..8	START perpetual cycle, first “ON”, argument: socket nr	ok oder error