

Computer Connection

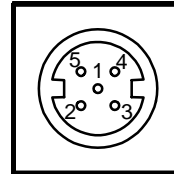
Connection: RS 232c interface without handshake

Transfer format: 1 start bit, 8 ASCII-bit, no parity bit, 1 stop bit

Transfer speed: 2400 baud

Pin arrangement of jack:

- 1 ground
- 2 6 - 15 Volt
- 3 serial output, channel 1
- 4 6 - 15 Volt
- 5 serial output, channel 2



Serial Channel 1 (running time):

Output ASCII on channel 1 and 2
Output synchronized with timer every 1/10 second.

With 1/1000

```
Memory/time of day:          xxxxxxxxxxxxxxxxxxxxxxxxxxxx (CR)
Time before start:          ###.xxxxxxxx0:00.000xx (CR)
Running time:               ###.xxxxHH:MM:SSxxxxxx (CR)
Running time with 1/10 sec.: ###.xxxxHH:MM:SS.zxxxx (CR)
Intermediate time 1:       ###AxxxxHH:MM:SS.zhtRR (CR)
Intermediate time 2:       ###BxxxxHH:MM:SS.zhtRR (CR)
Run time:                   ###CxxxxHH:MM:SS.zhtRR (CR)
Total time:                 ###DxxxxHH:MM:SS.zhtRR (CR)
```

Without 1/1000:

```
Memory/time of day:          xxxxxxxxxxxxxxxxxxxxxxxxxxxx (CR)
Time before start:          ###.xxxxxxxx0:00.000xx (CR)
Running time:               ###.xxxxHH:MM:SSxxxxxx (CR)
Running time with 1/10 sec.: ###.xxxxHH:MM:SS.zxxxx (CR)
Intermediate time 1:       ###AxxxxHH:MM:SS.zhxRR (CR)
Intermediate time 2:       ###BxxxxHH:MM:SS.zhxRR (CR)
Run time:                   ###CxxxxHH:MM:SS.zhxRR (CR)
Total time:                 ###DxxxxHH:MM:SS.zhxRR (CR)
```

Serial Channel 2 (standing time):

with 1/1000:

```
Intermediate time 1:      ###AxxxxHH:MM:SS.zhtRR(CR)
Intermediate time 2:      ###BxxxxHH:MM:SS.zhtRR(CR)
Run time:                 ###CxxxxHH:MM:SS.zhtRR(CR)
Total time:               ###DxxxxHH:MM:SS.zhtRR(CR)
```

Without 1/1000:

```
Intermediate time 1:      ###AxxxxHH:MM:SS.zhxRR(CR)
Intermediate time 2:      ###BxxxxHH:MM:SS.zhxRR(CR)
Run time:                 ###CxxxxHH:MM:SS.zhxRR(CR)
Total time:               ###DxxxxHH:MM:SS.zhxRR(CR)
```

Classement on Channel 2:

Classement of the 1st run:

the first line shows the rank
the second line shows the bib, LZ as identification for run time and the time
if you print the race points it shows in the third line RP as identification for race points and the race points (only for times over 30 seconds)

```
1.
003 LZ 00:00:49.32
2.
005 LZ 00:00:50.14
3.
027 LZ 00:00:50.28
```

Classement of the 2nd run:

the first line shows the rank
the second line shows the bib, * as identification for memory time and the memory time
the third line shows LZ as identification for run time and the run time
the fourth line shows TZ as identification for total time and the total time
if you print the race points it shows in the fifth line RP as identification for race points and the race points (only for times over 30 seconds)

```
1.
003 * 00:00:43.76
    LZ 00:00:42.37
    TZ 00:01:25.13
RP 00000.00

2.
007 * 00:00:43.73
    LZ 00:00:43.25
    TZ 00:01:26.98
RP 00008.39

3.
014 * 00:00:43.08
    LZ 00:00:44.25
    TZ 00:01:27.33
RP 00011.84
```

Explanation of figures used to describe the RS232 interface:

..... bib number
x blank
. identification for running time (point on fourth digit)
A identification for intermediate time 1
B identification for intermediate time 2
C identification for run time
D identification for total time
HH hours
MM seconds
z 1/10 second
h 1/100 second
t 1/1000 second
: between hours and minutes, between minutes and seconds
. between seconds and 1/10 seconds
RR Rank (two digits)
LZ identification for run time (German version)
* identification for memory time
TZ identification for total time (German version)
RP identification for race points (German version)

Output for finish- and intermediate times from the MEMORY works as well on channel 1 and 2.

The output for the total time comes when the display shows the total time (about 5 seconds after the finish arrival).

For hours, minutes it shows no zero before the time on channel 1:

e.g.: 199C 0:12.14 12(CR)
 014A 1:03:42.15417(CR)

If you switch the channel 2 in the Menu B on winners time, it shows only the winners time, but no intermediate- and finish times.

Attention:

You change from channel 1 to channel 2 when rotating the plug 180°.