

Manual

D-LINE

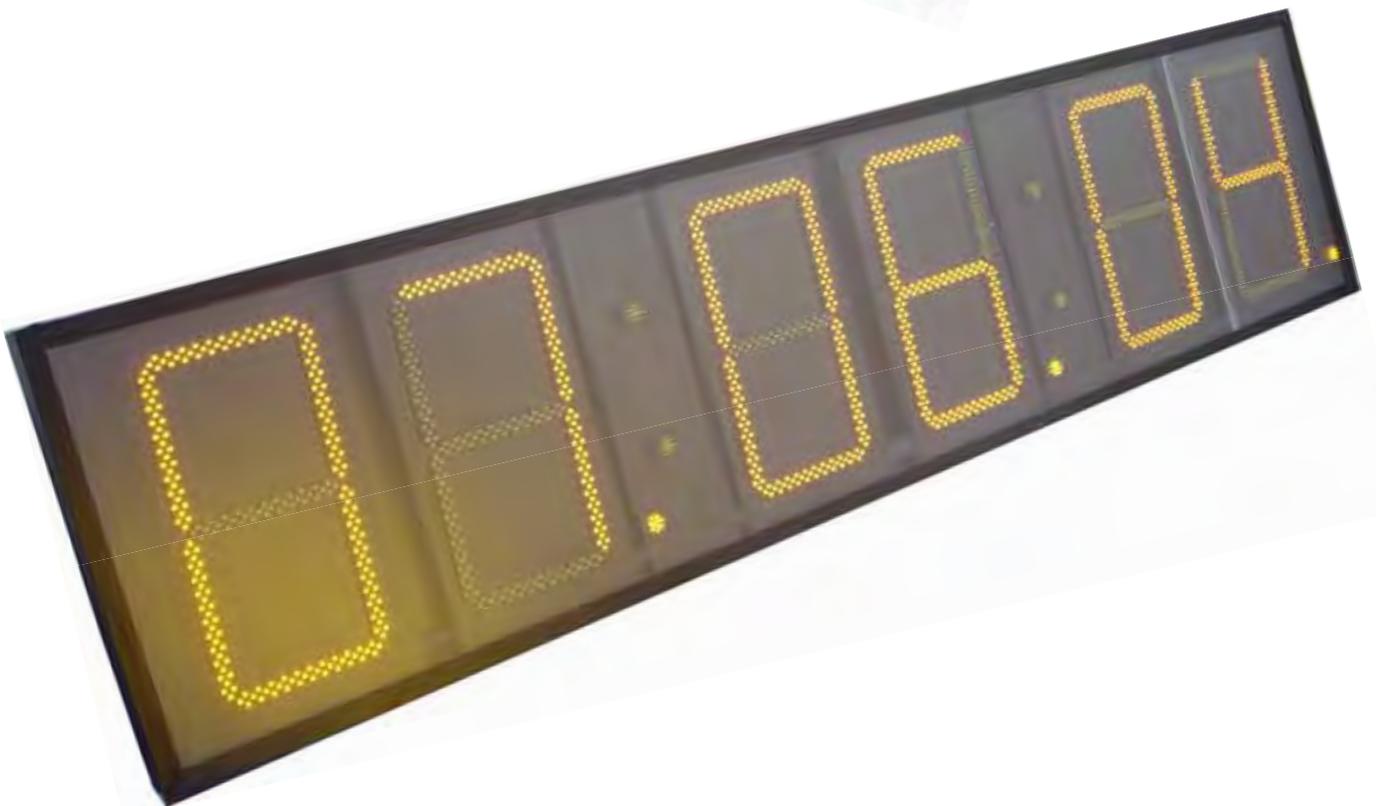


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[Parameter list of old Models]
(Parameter list for 3-digit Models)

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1 General

The D-LINE Scoreboards are very flexible in their use.
The difference between indoor and outdoor models is only the brightness of the LED's.

ATTENTION! Since 3-digit-displays doesn't have the full capability of all the below described functions there is a different menu for these displays.
You can find these parameters in () behind the normal parameters! Non described parameters are not available on such displays!

1.1 Parameterlist

The parameterlist shall be in a way that the user can already see by the name of the parameter that he is adjusting the parameter he would like to adjust. On the side there shall be also a sticker with a short explanation.

ATTENTION! Old D-LINE models have different parameters. These old parameters are always in [xx]. Some of the settings are identically and some others are not available.

1.1.1 **hh** Set daytime hours [P0]

This parameter is to adjust the hours of the daytime

1.1.2 **EE** Set daytime minute [P1]

This parameter is to adjust the minutes of the daytime.

1.1.3 **SS** Set daytime seconds [P2]

This parameter is to adjust the minutes of the daytime.

1.1.4 **dd** Set the day of the date [P3]

This parameter is to adjust the day of the date.

1.1.5 **de** Set the month of the date [P4]

This parameter is to adjust the month of the date.

1.1.6 **dy** Set the year of the date [P5]

This parameter is to adjust the year of the date.

1.1.7 **th** Display time for daytime [P6]

Display time to show the daytime.

To switch off the daytime on the display, set the value to 00.

1.1.8 **td** Display time for date [P7]

Display time to show the date.

To switch off the date on the display, set the value to 00.

1.1.9 **EE** Display time for temperature [P8]

Display time to show the temperature.

To switch off the temperature on the display, set the value to 00.

If no temperature-sensor is connected, this setting is internally always 00!

1.1.10 **Ar** Area settings for temperature and time

Area parameter in order to adjust the display mode for time and temperature.

Following settings are possible.

The first digit in the setting is for the summertime changing, the second one is for the display mode.

1.1.10.1 **Summertime switching [P9]**

The first digit of the area-setting is responsible for the internal switching between summer and winter time.

1.1.10.1.1 **Ar 0** *Summertime switching [0x]*

No internal switching, used for DCF-controlled clocks.

1.1.10.1.2 **Ar E** *European summertime [1x]*

Summertime changing for Europe, used with internal clock, GPS and NTP-synchronization.

1.1.10.1.3 **Ar U** *USA summertime [2x]*

Summertime changing for USA, used with internal clock, GPS and NTP-synchronization.

1.1.10.1.4 **Ar A** *Australian summertime [3x]*

Summertime changing for Australia, used with internal clock, GPS and NTP-synchronization.

1.1.10.2 **Time and Temperature Setting**

The second digit of the Area-Setting is used for the display mode of the time and temperature.

12h, 24h, Celsius or Fahrenheit.

1.1.10.2.1 **Ar C** *Celsius and 24h [x0]*

Time in 24h mode and temperature in Celsius.

1.1.10.2.2 **Ar c** *Celsius and 12h [x1]*

Time in 12h mode and temperature in Celsius

1.1.10.2.3 **Ar F** *Fahrenheit and 24h [x2]*

Time in 24h mode and temperature in Fahrenheit

1.1.10.2.4 **Ar f** *Fahrenheit and 12h [x3]*

Time in 12h mode and temperature in Fahrenheit

1.1.11 **br** Brightness [A0] (b)

This Parameter is for the brightness settings and effects.

The first digit in the setting is for the appearance, the second for the brightness.

1.1.11.1 First digit of setting

The first digit is defining the type of changing between time and temperature.

Fade-in will changeover with brightness effect from time to temperature.

1.1.11.1.1 **br 0** *Fade-in off*

Fading is not activated.

1.1.11.1.2 **br 1** *Fade-in on*

Fading is activated.

1.1.11.2 Second Digit of Setting

This setting is defining the brightness-mode of the display.

1.1.11.2.1 **br 8** *Manual setting*

The second digit of the brightness setting can be adjusted from 0 to 9 for manual brightness.

Value 0 is minimum brightness, value 9 is maximum brightness.

This adjustment you can also set by using the menu of your TdC8001 or Timy.

1.1.11.2.2 **br d** *Daytime-dependent brightness [x3]*

Brightness is set automatically, depending on the daytime.

1.1.11.2.3 **br A** *Light sensor depending brightness [x4]*

With this setting, the brightness is depending on the light-sensor.

If the light sensor is not connected, it will be always maximum brightness.

1.1.12 **SE S** Serial interface setting [A1], (S)

This setting is for the Interface-Parameters.

The first digit in the setting is for the display mode, the second for the Interface-Speed.

1.1.12.1 Displaymode and Special-Functions

Here you can adjust the different display modes and special functions for your displayboard.

1.1.12.1.1 **SE S** *hh:mm:ss [0x]*

1.1.12.1.2 **SE h** *mm:ss:zh [1x]*

1.1.12.1.3 **SE F** *BIB RK [2x]*

1.1.12.1.4 **SE R** *Points [3x]*

With this setting it will display the points in equestrian from the TdC800x. If the points are sent from the Timer S4, the display must be adjusted manually as described at point 1.2.

1.1.12.1.5 **SE E** *Extended Mode [4x]*

This is an advanced mode where you can configure the complete scoreboard by yourself. You can define, which byte shall be shown on which position of the display board.

If the serial setting is on this mode, you have some more parameters to adjust the mode.

These parameters are **1**, **1**, **2**, **2**, ... [A5, A6, ... B0, B1, ...]

For the detailed description how to adjust these parameters, see point 1.2

1.1.12.1.6 **SE n** *Slave/Master communication [5x]*

1.1.12.1.7 **SE P** *PC communication [6x]*

1.1.12.1.8 **SE C** *Game console wired [7x]*

1.1.12.1.9 **SE E** *Game console wire-less [8x]*

1.1.12.2 Transfer speed

The second digit of the setting is responsible for the transfer speed of the serial interface.

1.1.12.2.1 **SE 2** 2400,N,8,1 ALGE-Standard [x0]

1.1.12.2.2 **SE 4** 4800,N,8,1 ALGE [x1]

1.1.12.2.3 **SE 9** 9600,N,8,1 ALGE [x2]

1.1.12.2.4 **SE 1** 19200,N,8,1 ALGE [x3]

1.1.12.2.5 **SE 5** Special mode

1.1.12.2.6 **SE L** Old devices like the S3 or SF2 [x4]

1.1.13 **EO** Time-out for daytime [A2]

This setting defines the time after the display board switches from serial display mode back to day-temp mode.

If this setting is on 00, the parameter described from point 1.1.1 to point 1.1.10.2.4 are not visible anymore.

1.1.14 **Ad** Address-Setting [A3] (A)

To use more than 1 D-LINE on an addressed protocol, you have to define the address of each display board. Normally the first line will be address one, second line address 2,....

Depending on the sport, this setting can be important to have the serial data of your timing-device displayed correctly. Please also refer to the manual of your timing-device concerning the setting for the display board for your sport.

1.1.15 **AL** Alarm-function (in the standard model not included)

Parameter C1-C6: Alert configurations-mode is optionally and only have got effects if parameter A4 is not „0“.

Attention at nine-digit display boards - these parameters will be adjusted from C3 to C8.

Two alert types are programmed: Alert type 0 and alert type 1. Every of these alerts are producing an output signal, which is directly connected to a horn. For each alert, you can indicate the quantity of impulses, the impulse periods and the breaks between the impulses.

Don't mix up the **types of alerts** and the **alert programs**! The alert program decides about triggering off the alert to which daytime while the types of alerts defines the sound.

Two alert programs can be stored. Each program can store up to 50 alert times.

1.1.15.1 C1

Quantity of impulses for alert-type 0

1.1.15.2 C2

Duration of impulses in 1/10 sec. for alert-type 0

1.1.15.3 C3

Break between two impulses in 1/10 sec. for alert-type 0

1.1.15.4 C4-C6

Same as C1-C3, but for alert-type 1

Subsequently 50 alert times are following for the at the moment active alert program.

00, 01, t: alert time 1, 00=HH, 01=MM, t = alert type 0 or 1

02, 03, t: alert time 2, 00=HH, 01=MM, t = alert type 0 or 1

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98, 99, t: alert time 50, 00=HH, 01=MM, t= alert type, 0 or 1

If you indicate „25“ in the hours-position, it means that this alert is activated every hour of the programmed minute.

If you indicate „29“ in the hours-position, it means that this is the end of the list.

The current value or adjustment is shown beside the parameter. The figure which blinks can be adjusted. Is e.g. “A0” blinking and you push the button, you will automatically switch to the next higher parameter (“A1”). But if you would like to change the adjustments at “A0”, please wait until the figure beside the parameter will blink. Now you can indicate your adjustments. If you have typed wrong, just wait until the figure, which indicates the parameter, is blinking.

After adjusting the parameters, the display will show the adjusted time. The run time will beginn, if you push once again the button or if the first impulse will be received by the serial channel. This is necessary to allow a precise clock adjustment.

Out of that reason you should calculate that time which you need for these adjustments bevor the run time starts. The time adjustment will always be made in 0-23 hour-mode (independend of “hour-mode-parameters”!)

1.2 Extended Datamode

In this mode you can assign each digit one byte out of the datastring.
It is for example possible to program it so that you can see on one 6-digit scoreboard the BIB on the first 2 digits and the time in m:ss on the last 3 digits.
In some sports like equestrian (with the Timer S4) you have to program the display for the points in this mode.

Example: Configuration of a 6-digit display in order to show the points, sent by a Timer S4 (equestrian) in the middle of the display.

The datapackage of the Timer S4 looks as described below:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
PZ	PE	.						H	H	:	M	M	:	S	S	.	z			Pz	Pe	CR	
PZ	PE							H	H	:	M	M	:	S	S	.	z	h	t	Pz	Pe	CR	

The parameters should be adjusted like this:



Extended protocol, 2400bps [A1-40] (S-E2)

Device adress 00 [A3 00] (A-00)



First digit is always inactive [A5-00]



Dot or double-dot after first digit is always inactive [A6-00]



Second digit will display points PZ [A7-01]



dot or double-dot after second digit is always inactive [A8-00]



Third digit will display points PE [A9-02]



Will show the dot which is sent after the full second [B0-17]



Fourth Digit will show points Pz [B1-21]



Dot or double-dot after fourth digit is always inactive [B2-00]



Fifth digit will show points Pe [B3-22]



Dot or double-dot after fifth digit is always inactive [B4-00]



Sixth digit is always inactive [B5-00]

In the older Models of the D-LINE, the first digit is A5 and then it is continuing with A6-A9, after A9 it starts with B0....

2 Special Functions

You can use the D-LINE scoreboards also as stand-alone Stopwatch, Countdown clock or Counter.

2.1 *Stopwatch, Countdown and Counter*

To use one of these modes, you need to connect a manual button 023-xx at the green and red bananaplug of the D-LINE scoreboard.

The D-LINE is storing the last used function, so whenever you connect a manual button and press one, it will jump to the last used program.

To adjust the mode stopwatch, countdown or counter you have to change the parameter **SE** as described below.

2.1.1 Stopwatch-Countdown

To change between the mode Stopwatch and Countdown, you have to press the manual button as long as the display will switch to the other mode (10 seconds).

On the display, you can see the difference between these 2 modes by following detail. Stopwatch will display **00:00:00** and Countdown will display a time where the first digit is blinking.

2.1.1.1 **SE5** hh:mm:ss [A1-0x]

Timeformat for Stopwatch and Countdown!

2.1.1.2 **SE6** mm:ss:zh [A1-1x]

Timeformat for Stopwatch and Countdown!

2.1.1.3 Adjusting the Countdown time

After you have reached the Countdown mode by pressing the manual button for approximately 10 seconds, the first digit is now blinking!

Whenever you press and release the button, it will increase the countdown time on this position. After you have reached the correct value for this position, press the button as long as the blinking position is moving to the next digit.

After adjusting the last digit, it will show the total countdown time without any blinking.

2.1.2 Counter

To change between the mode Count-up and Count-down, you have to press the manual button as long as the display will switch to the other mode (10 seconds).

On the display you can see the difference between these 2 modes by following detail.

Stopwatch will display a **0** on the last position. Countdown will display a number, where the first digit is blinking.

2.1.2.1 **SE7** Counter

Enables the Counter mode.

Depending on the counting-direction, a short impulse with the button count up (down) and pressing the button for 2 seconds counts down (up)

2.1.2.2 Adjusting the Counter

After you have reached the Count-down mode by pressing the manual button for approximately 10 seconds, the first digit is now blinking!

Whenever you press and release the button, it will increase the Count-down on this position. After you have reached the correct value for this position, press the button as long as the blinking position is moving to the next digit.

After adjusting the last digit, it will show the total count-down without any blinking. Pressing the manual button will now decrease the counter. Pressing the button for approximately 2 seconds will count-up, pressing for approximately 5 seconds will reset the counter to the start-value.

3 Technical Data

Type	Amount of digits	Figure Height	Height	Width	Deep	Hangers	max. Dist.	Power (W)
D-LINE57-I-3-E0	3	57	130	400	60	200	25m	10
D-LINE57-I-4-E0	4	57	130	400	60	200	25m	11
D-LINE57-I-6-E0	6	57	130	500	60	200	25m	13
D-LINE100-I-4-E0	4	100	180	600	60	400	50m	10
D-LINE100-I-6-E0	6	100	180	800	60	500	50m	13
D-LINE150-I-3-E0	3	150	250	600	60	300	75m	8
D-LINE150-I-4-E0	4	150	250	730	60	430	75m	10
D-LINE150-I-5-E0	5	150	250	956	60	556	75m	11
D-LINE150-I-6-E0	6	150	250	956	60	556	75m	13
D-LINE250-I-3-E0	3	250	350	850	60	450	125m	24
D-LINE250-I-4-E0	4	250	350	1100	60	700	125m	29
D-LINE250-I-5-E0	5	250	350	1493	60	1093	125m	35
D-LINE250-I-6-E0	6	250	350	1493	60	1093	125m	41
D-LINE450-I-4-E0	4	450	600	1900	60	1500	225m	45
D-LINE450-I-6-E0	6	450	600	2490	60	2090	225m	63
D-LINE600-I-4-E0	4	600	800	2490	60	2090	270m	59
D-LINE600-I-6-E0	6	600	800	3400	60	3000	270m	83

