

LED DISPLAY 64x16

Device has following characteristics:

Operating voltage: 230V - 65W at maximum brightness

Bluetooth enabled communication.

Temperature range: **-55c** to **+125c**

GPS enabled clock function.

Features:

Bluetooth name: LED_xxx (e.g. LED_001 ; LED_002-BLE;...)

Bluetooth password: **1980**

Bluetooth BLE password: **000000**

- After successfully connected through Bluetooth user must ensure that the application sends **<CR>+<LF>** after each command
- Application examples: **Bluetooth serial terminal**

List of accepted communication with device:

- **<?>**: print information about the device
- **<t>**: led test, lights up all LEDs for troubleshooting purposes
- **<x>**: clear display
- **<r>**: software reset
- **<s>**: setting the clock for daylight-saving -summer
- **<w>**: setting the clock for daylight-saving -winter
- **<i=00>**: setting the display brightness to the lowest level, accepted values are **i=00** to **i=14**, **14** is the highest

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- **<ln1,l,20, testing 1234 >:**
 - **ln1**: display scrolling text on line **1**, range is **1** to **2**
 - **l**: scrolling text direction **l**=left, **r**=right
 - **20**: speed of scrolling text, range is **01** to **100**
 - **testing1234**: actual text

delimiter is “,” in this case but can be any other character
- **<lnu,l,20, testing 1234 >:**
 - **lnu**: display scrolling text with **2x16 font**
 - **l**: scrolling text direction **l**=left, **r**=right
 - **20**: speed of scrolling text, range is **01** to **100**
 - **testing1234**: actual text

delimiter is “,” in this case but can be any other character
- **<ln1,t, text >:**
 - **ln1**: display static text on line **1**, range is **1** to **2**
 - **t**: text identifier
 - **text**: actual text

delimiter is “,” in this case but can be any other character
- **<lnu,t, text >:**
 - **lnu**: display static text with **2x16 font**
 - **t**: text identifier
 - **text**: actual text

delimiter is “,” in this case but can be any other character

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- **<p1e,05,25, text >**:
 - **p1e**: enable program **1** to print scrolling text with **2x16 font**
 - **05**: duration in minutes of text display; range: **01-14**
 - **25** : speed of scrolling text, range is **01 to 100**

delimiter is “,” in this case but can be any other character

-there are 4 programs **p1** to **p4** that can be enabled for displaying different texts on **2x16 font** with scrolling direction left every **15 minutes**.

-to exit any of the **4 programs** while displaying text user must send **<x>** command to clear the display and return to main configuration.

- **<p1d>**:
 - **p1d**: disable program **1**; range **1- 4**
- **<pc>**:
 - **pc**: displays the saved programs configuration
- **<ln1=i>**:
 - Inverted display of text on line **1**, range is **1 to 2**
- **<ln1=e>**:
 - effect display of text on line **1**, range is **1 to 2**
- **<ln1=o>**:
 - displays the current time on line **1**, range is **1 to 2**
- **<ln1=d>**:
 - displays the current date on line **1**, range is **1 to 2**
- **<ln1=c>**:
 - displays the temperature on line **1**, range is **1 to 2**

delimiter is “=” in this case but can be any other character

- the effect and inverted display can be turned **on** or **off** sending the same command.

-in case of spelling errors device returns “**cmd ERROR !**” which means that the command sent is unknown.

-for scrolling text a maximum of **200** characters are accepted.