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|--|---|-----------------------------------|
|  | ELEN, s.r.o., Lubochnianska 16, 080 06 Lubotice, Slovakia |                                   |
|  | <b>DATASHEET</b>  | Datasheet No.:                    |
| <b>Product name</b>  | <b>Textual displays</b>                                   | 14012701                          |
| <b>Type / Model</b>  | <b>TDU 76-16/192 RG L54 230AC</b>                         |                                   |
| <b>Order code</b>  | <b>ZZ0643</b>   | Date of last revision: 27.01.2014 |



**TDU 76-16/192 RG L54 230AC** series alphanumeric displays are programmable electronic devices for displaying static or moving textual information.

These displays are manufactured with high-brightness AlInGaP dot matrix LED modules, which ensure their good displaying properties and long lifetime. The mechanical design and LED matrix used makes them suitable to be used in industrial indoor environment.

Standard PC software application for creating and programming text messages into display included with display delivery. In case of integration into customer's existing project, the communication protocol description can be provided (e.g. for programming the PLC control unit).

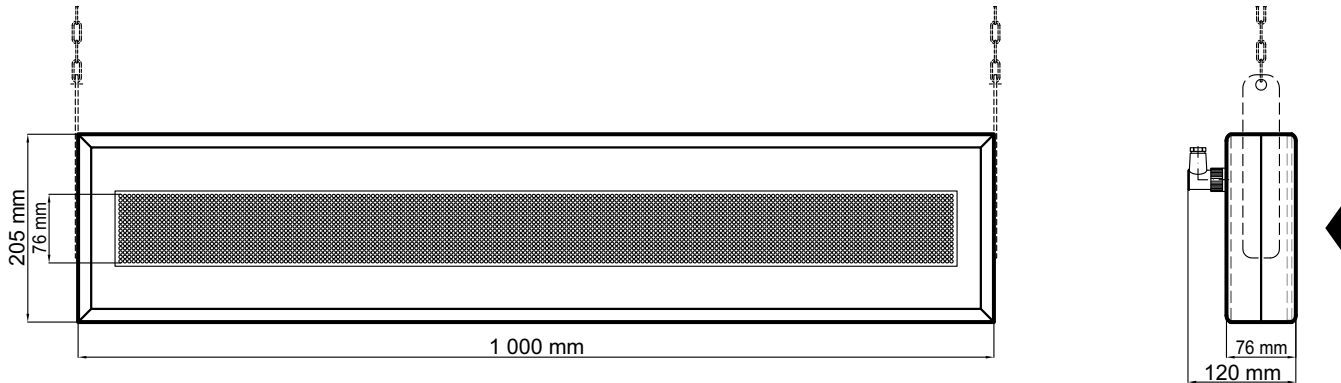
Display can be mounted from top ceiling or on the wall using a tilting console.

## Technical Specifications

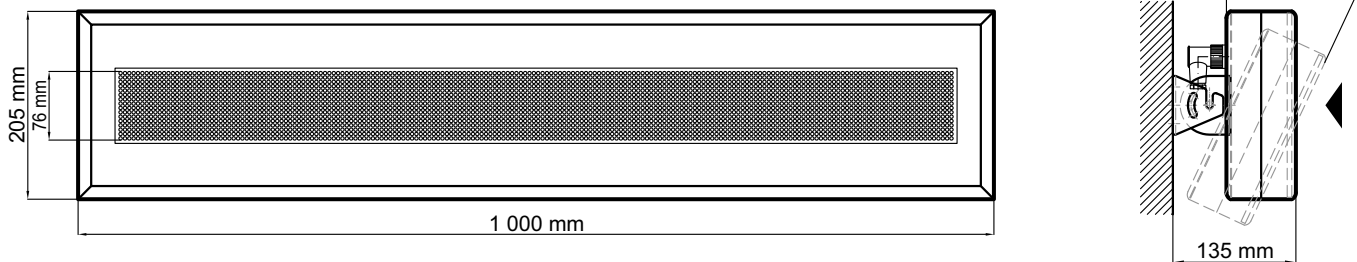
|                               |  |
|-------------------------------|--|
| Character height              | <b>76 mm</b> max. (when using single line font)  |
| Readability range             | about 40 m max.  |
| Number of sides               | 1 or 2   |
| Number of lines               | 1 for full height font or 2 when using small height font   |
| Row display matrix            | 16 x 192 dots  |
| Number of characters in 1 row | 16-18, depending on the type of font used<br>(more characters are possible using smaller font, or double-line font)                                      |
| Color of displaying elements  | red, green and orange (by combination)   |
| Type of displaying elements   | high-brightness AlInGaP dot matrix LED modules,<br>suitable for indoor light conditions  |
| Frame                         | double frame construction – internal steel frame tube with black powder paint coating and external aesthetic aluminum frame, platinum matt or gray color |
| Front cover                   | anti-glare PERSPEX glass with optical filter, 5 mm thick   |
| Class of protection           | IP 54 (IP 20 version is also possible)   |
| Communication interface       | serial RS232, RS485 with galvanic separation, Ethernet TCP/IP, Profibus DP, LonWorks® FTT-10, parallel-BCD/binary, and others...                         |
| Communication protocol        | ELEN, Profibus DP, TCP/IP, LonTalk, and others on request  |
| Data / mains connector        | industrial grade, IP 65, type: Binder, D-Sub 9-pin or RJ45<br>(depends on communication interface)   |
| Power supply                  | 230 VAC, 50 Hz (others on request, e.g. 24 VDC, ...)   |
| Dimensions                    | 1 000 mm x 205 mm x 76 mm (see dimensional drawing)  |
| Working temperature           | -30°C ÷ +50°C  |
| Mounting                      | from ceiling, or wall mounting on a tilting console  |

## Dimensional drawing

### Mounting from the top ceiling



### Mounting on the wall



### Options of communication interfaces (others on request)

|                                 | Type of connector<br>(industrial grade, IP 65) |
|---------------------------------|--|
| RS485, or RS232                 | Binder   |
| Ethernet TCP/IP                 | RJ45   |
| Profibus DP                     | D-Sub 9-pin                                    |
| Service programming cable RS232 | Binder – D-Sub 9-pin                           |