



# DYSTEN

Manufacturer of Passenger Information Displays  
[railway-displays.com](http://railway-displays.com)

# LED

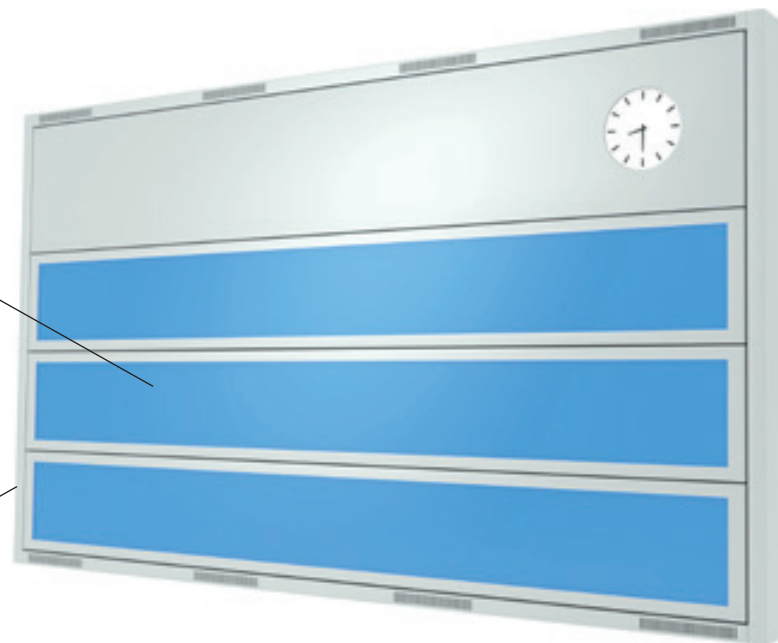
## passenger information displays

### MODULAR SYSTEM

**Flexibility modular system, customized according to the amount of information you need to display.** You can decide how many information rows you need. With or without frames between modules.



customize colors and design



### LOW POWER CONSUMPTION

Four times lower energy consumption compared to LCD TFT technology.



### 15 YEARS LIFETIME

Service life 15 years, MTBF 100 000 hours.



### HIGH BRIGHTNESS 1500-5000 nits

High brightness for better reading of information from a long distance, as well as a built-in brightness sensor that adjusts the intensity of LEDs.



### PROTECTION

Protection adapted to the environment and customer needs; IP54 to IP65, IK07 to IK09. Anti-vandal sensor, glass break sensor, case opening sensor, shock sensor, bomb alert, no-visible camera etc.



### FULL COLOR - LED RGB

LED RGB (full colour) devices provide complete freedom to display content – any color, size and type font and format of the timetable.

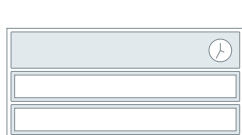


### EASY INTEGRATION

Easy integration with any system – open communication protocols.

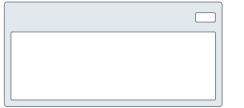
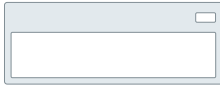
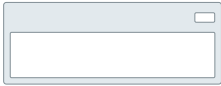
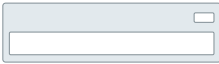
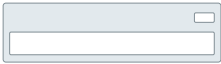
# LED passenger information displays

|      | main station displays |               |               |               | platform displays |                        |
|------|-----------------------|---------------|---------------|---------------|-------------------|------------------------|
| TYPE | WGS_LED_P4_R6         | WGS_LED_P4_R9 | WGS_LED_P3_R6 | WGS_LED_P3_R9 | WKR_LED           | WKR_LED_Z (with clock) |



| Technology            | LED RGB FULL COLOR, LED SMD                                | LED RGB FULL COLOR, LED SMD                                | LED RGB FULL COLOR, LED SMD                                | LED RGB FULL COLOR, LED SMD                                | LED RGB FULL COLOR, LED SMD                                                                      | LED RGB FULL COLOR, LED SMD                                                                      |
|-----------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Resolution [pix]      | 608 x 128                                                  | 608 x192                                                   | 1824x384                                                   | 1824x512                                                   | 320 x 192                                                                                        | 320x192                                                                                          |
| Pixel Pitch           | 4                                                          | 4                                                          | 3                                                          | 3                                                          | 3                                                                                                | 3                                                                                                |
| Number of rows        | 6                                                          | 9                                                          | 6                                                          | 9                                                          | dowolna                                                                                          | dowolna                                                                                          |
| Luminance [nits]      | 4000                                                       | 4000                                                       | 4000                                                       | 4000                                                       | 2500                                                                                             | 500 - 2500                                                                                       |
| IP protection         | IP42 / IP 55 / IP65                                        | IP42 / IP 55 / IP65                                        | IP42 / IP 55 / IP65                                        | IP42 / IP 55 / IP65                                        | IP55 / IP65                                                                                      | IP55 / IP65                                                                                      |
| Temperature [°C]      | -40°/+55°                                                  | -40°/+55°                                                  | -40°/+55°                                                  | -40°/+55°                                                  | -40°/+55°                                                                                        | -40°/+55°                                                                                        |
| MTBF [h]              | 100 000                                                    | 100 000                                                    | 100 000                                                    | 100 000                                                    | 100 000                                                                                          | 100 000                                                                                          |
| Vac supply            | 230 V 50 Hz                                                | 230 V 50 Hz                                                | 230 V 50 Hz                                                | 230 V 50 Hz                                                | 230 V 50 Hz                                                                                      | 230 V 50 Hz                                                                                      |
| Anti-vandalizm        | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                                                                | ✓                                                                                                |
| Brightness sensor     | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                                                                | ✓                                                                                                |
| Glass break sensor    | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                                                                | ✓                                                                                                |
| Case opening sensor   | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                                                                | ✓                                                                                                |
| Shock sensor          | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                                                                | ✓                                                                                                |
| Anti-reflective glass | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                          | ✓                                                                                                | ✓                                                                                                |
| Control system        | DVI, HDMI, LAN, SERIAL PORT                                | DVI, HDMI, LAN, SERIAL PORT                                | DVI, HDMI, LAN, SERIAL PORT                                | DVI, HDMI, LAN, SERIAL PORT                                | DVI, HDMI, LAN, SERIAL PORT                                                                      | DVI, HDMI, LAN, SERIAL PORT                                                                      |
| Options               | Digital / analog Clock<br>Camera<br>Redundant power supply | Digital / analog Clock<br>Camera<br>Redundant power supply | Digital / analog Clock<br>Camera<br>Redundant power supply | Digital / analog Clock<br>Camera<br>Redundant power supply | Digital / analog Clock<br>Camera<br>Redundant power supply<br>one side / double side<br>TTS, SOS | Digital / analog Clock<br>Camera<br>Redundant power supply<br>one side / double side<br>TTS ,SOS |
| Total size [mm]       | 2616 x 1170 x 162 (+/-30)                                  | 2616 x 1502 x 162 (+/-30)                                  | 2008 x 1050 x 162 (+/-30)                                  | 2008 x 1242 x 162 (+/-30)                                  | 1160 x 750 x 200 (+/-30)                                                                         | 1500 x 750 x 200 (+/-30)                                                                         |

|      | light railway displays |          |          |          |          |          |
|------|------------------------|----------|----------|----------|----------|----------|
| TYPE | TRGB-4                 | TP4W1S-4 | TP4W1S-6 | TP6W1S-4 | TP6W1S-6 | TP8W1S-4 |



| Technology            | LED RGB FULL COLOR, LED SMD, AMBER            | LED RGB FULL COLOR, LED SMD, AMBER            | LED RGB FULL COLOR, LED SMD, AMBER            | LED RGB FULL COLOR, LED SMD, AMBER            | LED RGB FULL COLOR, LED SMD, AMBER            | LED RGB FULL COLOR, LED SMD, AMBER            |
|-----------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| resolution [pix]      | 32x128                                        | 48x160                                        | 48x160                                        | 64x160                                        | 64x160                                        | 80x160                                        |
| Pixel Pitch           | 4                                             | 4                                             | 6                                             | 4                                             | 6                                             | 4                                             |
| Number of rows        | 4 or more                                     | 4                                             | 4                                             | 6                                             | 6                                             | 8                                             |
| Luminance [nits]      | 4000                                          | 4000                                          | 4000                                          | 4000                                          | 4000                                          | 4000                                          |
| IP protection         | IP54/ IP55 / IP65                             | IP54 / IP65                                   | IP54 / IP65                                   | IP54 / IP65                                   | IP54 / IP65                                   | IP54 / IP65                                   |
| Temperature [°C]      | -25°/+60°                                     | -25°/+60°                                     | -25°/+60°                                     | -25°/+60°                                     | -25°/+60°                                     | -25°/+60°                                     |
| MTBF [h]              | 100 000                                       | 100 000                                       | 100 000                                       | 100 000                                       | 100 000                                       | 100 000                                       |
| Vac supplay           | 230 V 50 Hz                                   | 230 V 50 Hz                                   | 230 V 50 Hz                                   | 230 V 50 Hz                                   | 230 V 50 Hz                                   | 230 V 50 Hz                                   |
| Anti-vandalizm        | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             |
| Brightness sensor     | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             |
| Glass break sensor    | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             |
| Case opening sensor   | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             |
| Shock sensor          | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             |
| Anti-reflective glass | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             | ✓                                             |
| Control system        | DVI, HDMI, LAN, SERIAL PORT                   | DVI, HDMI, LAN, SERIAL PORT                   | DVI, HDMI, LAN, SERIAL PORT                   | DVI, HDMI, LAN, SERIAL PORT                   | DVI, HDMI, LAN, SERIAL PORT                   | DVI, HDMI, LAN, SERIAL PORT                   |
| Options               | Camera<br>one side / double side<br>TTS / SOS | Camera<br>one side / double side<br>TTS / SOS | Camera<br>one side / double side<br>TTS / SOS | Camera<br>one side / double side<br>TTS / SOS | Camera<br>one side / double side<br>TTS / SOS | Camera<br>one side / double side<br>TTS / SOS |
| Total size [mm]       | 600x230 x190 (+/-30)                          | customize                                     | customize                                     | customize                                     | customize                                     | customize                                     |





linia  
route

Park Drezera 05

kierunek  
destination

14 METRO WILANOWSKA  
10 WYŚCIGI  
35 WYŚCIGI  
14 METRO WILANOWSKA  
18 PKP SŁUŻEWIEC  
WYŚCIGI



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**European  
Funds**  
Smart Growth



**Republic  
of Poland**



**European Union**  
European Regional  
Development Fund



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