LED PUBLIC INFORMATION DISPLAYS

Technical Details

Display	multi-line display type full matrix display type dDisplay of alphanumeric and graphic contents several character sets supported: Latin, Hebrew, Arabic, others on request dynamic content effects: scrolling text in all directions, flashing text, animations, etc. autonomous operation mode single sided or double sided display type
Character height	20, 32, 48, 64, 80 mm
Pixel	max: 65,000 pixels
Color of LED diodes	amber (other options: red, green, blue)
Reading angle	> 150°
Luminosity settings	automatic / manual luminosity level regulation
Audio	pre-recorded messages or Text To Speech, triggered with a push-button
Error detection	automatic individual pixel LED ED, position of broken LED, full or active pixel LED ED, automatic data line error detection
Service access	easy service access for effective intervention
Standards	low Voltage Directive – LVD 2006/95/EC electromagnetic Compatibility Directive – EMC Directive 2004/108/EC EN 60950-1, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-3
Control	automated control with data from central system, manual intervention via dedicated software
Supported protocols	Linaria, Flash, JP open protocol (dll libraries) others on request
Real-time clock	displays time and date, 12/24-hour format, keeps track of the current time without electric power
Communication	USB, Ethernet (LAN, W-LAN), RS-485, RS-232, RS-422, GPRS, ZigBee
Input voltage	230 V / AC (optional: 12-24 V / DC)
Housing Material	AlMg3 tinted front plate: Antireflective coated polycarbonate, temperature range: -40°C to +55°C (EN 60721-3-4:1995)

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SWARCO FUTURIT

SWARCO FUTURIT is the leading global player in LED-based signalling technology. The company specialises in traffic lights, variable message signs, street lighting and railway signals using the very latest developments in light emitting diode (LED) technology offering ecological friendliness and the advantages of low failure rate, energy-saving and a long operating life.

LED mobile variable message signs, public information displays and parking signs are products of SWARCO FUTURIT's wholly-owned Slovenian subsidiary SWARCO LEA d.o.o. in Lesce.

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SWARCO FUTURIT
Verkehrssignalsysteme GesmbH

LED PUBLIC INFORMATION DISPLAYS

SHOWING UP-TO-DATE INFORMATION

SWARCO FUTURIT, world leader in the development and production of traffic signal heads and LED variable message signs (VMS), understands that being accurately informed, in a timely manner and on the spot is of crucial importance to the passengers travelling by public transport.

SWARCO FUTURIT's LED Public Information Displays (PID) are developed for airports, railway stations, bus- and tram-terminals. The product range includes main station (junction) signs as well as platform displays. The combination of the latest technology and the know-how of an international team of engineers provides a smart and highly versatile range of displays with excellent viewing characteristics. The displays can easily be incorporated into station management systems.

Full matrix display

Multiline display

DESIGNED FOR THE PURPOSE OF INFORMATION

Public Information Displays can display flight, platform, tram and bus route numbers with destination and arrival/departure information in real time. Optionally, the products can be upgraded with several add-ons, such as voice announcements and vehicle detection. The robust yet esthetic housing is designed to withstand even the most demanding environmental conditions.

Based on the selected type, the Public Information Displays can show graphic or alphanumerical information with excellent visibility under all environmental conditions for indoor, semi-outdoor as well as outdoor applications.

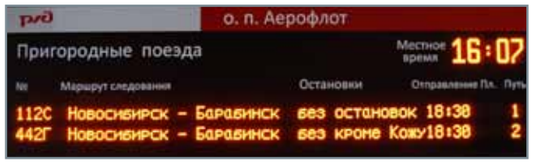
- FULL MATRIX DISPLAY: offers unlimited possibilities of combining alphanumerical information with images or animations
- MULTI-LINE DISPLAY: displays with alphanumerical lines support various dynamic text effects, such as blinking and scrolling in all directions, and is a perfect solution for applications where only text is required

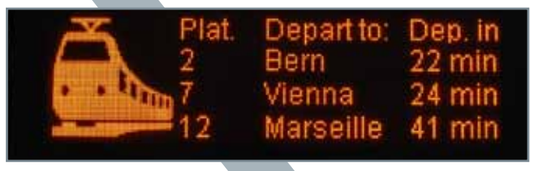
SWARCO FUTURIT I LEaDing the way.

LED PUBLIC INFORMATION DISPLAYS
Key Benefits

- made exclusively of high tier electronic components
- developed and engineered on the basis of our know-how
- slim and esthetic design that gives you flexibility for customized installation and integration
- exceptional readability and visibility under all weather conditions
- wide viewing angle and color uniformity
- automatically controlled or manually adjustable luminance
- stable luminance, independent of the mains voltage tolerances
- resistance to permanent presence of conductive parts composed of conductive dust, rain and snow
- modular design
- autonomous operation
- a wide range of pixel pitch options from 2.5 mm to 10 mm, fitting any application
- over 10 years of experience on the segment of LED public information displays

DISPLAY INFORMATION IN REAL TIME





SWARCO FUTURIT's public information displays are smart units that can perform countdowns to arrivals of the public transport vehicle based on an earlier system input. Next to this, the displays can improve real time accuracy via direct short range communication with the vehicle.

PUBLIC INFORMATION DISPLAYS
Application Examples

4-line display, single sided, resolution 192x16 pixels/line, pixel pitch 4 mm, communication Ethernet

4-line display, double sided, resolution 192x8 pixels/line, pixel pitch 6 mm, communication Ethernet, pre-recorded audio, silk print

2-line and 10-line display, single sided, resolution 288x8 pixels/line, pixel pitch 4 and 6 mm, communication Ethernet, digital clock, cross&arrow sign

10-line display, single sided, resolution 288x8 pixels/line, pixel pitch 8 mm, communication Ethernet, analog clock

13-line display, single sided, resolution 288x8 pixels/line, pixel pitch 4mm, communication Ethernet

2- and 6-line display, single sided, resolution 192x8 pixels/line, pixel pitch 4 and 6 mm, communication Ethernet/GPRS/Zigbee