Dynamic Reservation Display
DILAX Seat Management - individual concepts

With its reservation display system, DILAX offers a comprehensive solution for providing reservation information for the most diverse seat situations in public transport. We offer individual system concepts customized to our customers’ requirements – from design and component delivery to interface conception – as a one-stop service. In addition to a system of high-quality technical components developed and produced in-house, we offer professional support for the conception of the entire reservation system. We advise our customers on selecting the most suitable data formats and transmission paths as well as on setting up the infrastructure. You can rely on our long-standing experience when implementing the interfaces. The DILAX reservation display system can be easily integrated into the existing infrastructure, the installation is straightforward and it is compliant with all common standards.

System Setup

The reservation display system comprises three components: The Reservation Server Unit (RSU) is the system’s key component. The RSU takes care of the complete distribution of the reservation data in the vehicle – it receives the data from the reservation system, prepares it and distributes it to the respective control units (Counting and Reservation Unit, CRU) in the cars and on to the individual displays (Reservation Display Unit, RDU). The system is simple to integrate and easily expandable. For example, the CRU can also be used for automatic passenger counting in combination with DILAX sensors.
### Reservation Display System
- Easy installation in new vehicles or during vehicle modernization
- Easy integration into existing Ethernet infrastructure with connection to the communication gateway
- Simple system concept: Only one DILAX Reservation Server Unit (RSU) per vehicle and one control unit (CRU) per car with up to 100 displays (RDU) per control unit
- Display for individual seats, two- and four-seat groups or for multipurpose areas
- System works autonomously, no intervention by train staff required
- Display information updates in real-time
- Extensive support for connection to the landside reservation system
- CRU can also be used for automatic passenger counting in combination with DILAX sensors

### DILAX Displays
- State-of-the-art display technology (OLED) in railway-compatible casing
- Font color: monochrome amber
- Occupancy display as text or multicolored status LEDs
- Display of pictograms, international and special characters
- Display of additional information (e.g., connections, further travel information, weather)
- Multi-line display, 32-character line length, time-controlled scrolling or alternating possible with up to 64 characters
- Adjustable brightness for ideal legibility in normal brightness and natural light
- Different DILAX display models can be combined within one system

### DILAX Display RDU 100
**The compact solution**
- Two-line OLED display
- Current occupancy as text
- Small installation size due to compact casing
- Particularly suitable for single seats and two-seat groups

### DILAX Display RDU 200
**The comfortable solution**
- Four-line OLED display
- Current occupancy as text or three-colored status LEDs (green/yellow/red)
- Particularly suitable for single seats, two- or four-seat groups, for multipurpose areas and for reservation and additional information

### Standards and Conformity
DILAX is certified according to the quality management standards ISO 9001 and the International Railway Industry Standards (IRIS). DILAX systems are compliant with the following standards (among others) and can thus be used for all types of vehicles such as buses, trams, ferries, metros and trains:
- CE, RoHS, e1
- EN 50155, EN 50121
- EN 50126 (RAMS/LCC)
- EN 50128 (safety-relevant software for train applications)
- EN 62402 (obsolescence management)
- Fire protection (depending on the model): NFF 16 101, DIN 5510-2, EN 45545, UNI CEI 11170, BS 6853, NFPA 130, R118

### Well-Informed Passengers
The innovative DILAX system can show any additional information relevant for passengers, such as the current weather conditions or connections at the next station in real time, thanks to its connection to landside systems. Via intelligent linking with other systems, current reservation information can be displayed even before boarding, for example on displays on the platform or in a smartphone app - helping passengers to position themselves better and get to their seats immediately - an important contribution to more traveling comfort and passenger satisfaction.