



## OUTDOOR INFORMATION TERMINAL

Type: IKZSx-46TFT

The IKZSx outdoor information terminal has been designed to operate within Passenger Information Systems as a multimedia, interactive information display that enables the presentation of content related to timetables and other city, tourist or advertising information.

### Product description

In their basic version, outdoor information terminals are equipped with software that enables the presentation of information about train arrivals and departures, including information about delays. Placed at railway stations and passenger stops together with other devices they form a complete Passenger Information System. Information Terminals are also adapted to cooperate with TrainINFO and TrainECHO systems as elements of these systems. Optionally, after appropriate adaptation of the firmware, data can be downloaded from other passenger information servers or announcements.

Outdoor information terminals are manufactured in one-sided or two-sided versions. Each side can have four touch buttons to interact with the traveller. The functions and operation of the buttons change depending on the information presented and the method of pressing the button. Confirmation of pressing the button is signalled by the change in the backlight colour, normally from blue to green.

The loudspeakers allow to supplement the information with audio content, e.g. additional signals or messages for the visually impaired passengers. Optionally, the NTP analogue clocks can be installed on one or two sides of the information terminal, which will complement its functionality with a continuous time presentation. Other devices can be installed on request.

By default a LAN connection is used to communicate with the information terminal. Optionally, other communication devices, e.g. GSM / LTE, WiFi, ADSL can be installed inside.



### Outdoor information terminal case

The outdoor information terminal case is a self-supporting structure attached to a specially prepared foundation. The frame of the device is made of aluminium profiles, and the outer plating is made of stainless steel.

The door and the monitor mounting structure are hinged. Inside the case, electrical and electronic components are mounted on the appropriate supports. The case is painted with matte powder coating with a fine structure. Screen modules are safeguarded against vandalism by using tempered glass or laminated safety glass. The case is protected against unauthorized access through system key locks. Opening the case is signalled by the use of appropriate sensors.

### Working conditions

As an outdoor device, the IKZSx information terminal is equipped with a heating and ventilation system with control and monitoring automatics. Due to this fact, it can operate in the extended range of external temperatures.

The device's operating status and environmental conditions can be monitored using a remote access application. The use of professional monitors makes the information displayed on the screen readable even in high sunlight. Thanks to the controller built into the information terminal, it is possible to implement other non-standard actions and functions, such as the control of UPS status, air humidity, and solar level.

### Technical data

#### Screen:

**Type of screen:** LCD TFT with LED backlight;  
**Screen technology:** LCD Blacking Defect Free (H-Tni 110°C);  
**Screen size:** 46" Full HD;  
**Screen resolution:** 1080x1920;  
**Active area:** 1018x572mm;  
**Aspect ratio:** 16:9;  
**Screen brightness:** 2500 cd/m<sup>2</sup> (nit);  
**Contrast:** 3000:1 (C/R min.);  
**Angle of view:** 178(H), 178(V);  
**Number of displayed colours:** 16,7 million;  
**Matrix response time:** type 6ms (max 15 ms);  
**Brightness adjustment:** manual, automatic (independently for each side)

#### Control computer:

**Processor:** Intel Celeron J1900 4 x 2.0GHz;  
**Memory:** 64GB SSD (option 120GB SSD), 4GB RAM;  
**Network interface:** 10/100/1000Base-T;  
**Network communication protocols:** TCP/IP, UDP, SNMP v3,2,1, NTP, SNTP;  
**External inputs/outputs:** 1x USB 2.0, 2x USB 3.0, 1x RJ-45, 2x RS232 (COM)

#### Other parameters:

**Dimensions (width. x depth. x height):** 900 x 400 x 2210 mm (two-sided version);  
**Operating temperature:** -35°C to +55°C;  
**Programmable inputs/outputs I/O:** 8 optoisolated inputs, 4 relay outputs;  
**Clock face backlight (clock version):** adjustable between 250-700cd/m<sup>2</sup>, built-in lighting sensor;  
**Protective glass:** Conturan (tempered glass), visible light transmission > 98%, double-sided anti-reflective surface;  
**Level of security:** IP65 (PN-EN 60529:2003);  
**Level of mechanical security:** IK09 (PN-EN 60208);  
**Power:** 230V AC, 50Hz;  
**Power consumption (one-sided version):** normal operation max. 200W (max. 650W heating)

