



# Terminal LCD-10A

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Timetable management and data display system  
for public transport

## MULTIFUNCTIONALITY

Support for SDIP, CCTV systems, RFID, and vehicle function management



## INTUITIVE OPERATION

Advanced software, ergonomic design, programmable buttons, and capacitive touchscreen

## IDENTIFICATION

Fast and secure identification of users and devices using RFID technology

## COMPATIBILITY

Supports a wide range of interfaces: USB 2.0/3.0, Ethernet, CAN, RS-485

# Terminal LCD-10A

## Description of the device

The **LCD-10A terminal** with programmable buttons and an integrated Mifare module is an advanced device designed for integration with vehicle information systems in rail transport, trams, and buses. Equipped with a 10.1-inch touchscreen, five programmable buttons, and an RFID module supporting Mifare technology, it is an ideal component in modern passenger information management systems.

Thanks to its robust construction, resistance to environmental conditions, and compliance with stringent industry standards, the device is well-suited for demanding transportation environments. The integrated Mifare reader enables contactless card handling, supporting access control and ticketing systems.

The **LCD-10A terminal** features state-of-the-art components and intuitive software, allowing for easy customization to meet specific user requirements.

The **LCD-10A terminal** is mounted on a bracket included in the set, ensuring convenient and secure installation.

## Functionality

- ✓ Timetable display
- ✓ SDIP system visualization
- ✓ Control of SDIP devices
- ✓ Programmable buttons
- ✓ Server communication – bidirectional data exchange with the central management system
- ✓ Video surveillance preview
- ✓ Support for Mifare RFID contactless cards
- ✓ Intuitive software
- ✓ Integration with onboard systems



## Technical parameters

# Terminal LCD-10A

### General Specifications

External operating temperature	-20°C to +50°C
Enclosure protection rating	IP65
Dimensions	325,7 mm x 177,1 mm x 62,5 mm
Weight	Kg
Communication interfaces	USB 3.0 USB 2.0 Ethernet RJ-45 10/100 Ethernet RJ-45 Gigabit CAN bus RS-485 bus

### Display

Screen diagonal	257 mm (10,1")
Contrast	800:1
Brightness	1200 cd/m <sup>2</sup>
Image resolution	1280 x 800
Viewing angle	176 (H), 176 (V)
Pixel size	0,170(H) x 0,170(V) mm
Number of colors	16,7 M
Ambient light sensor	TAK
Touchscreen durability	5 mm tempered glass with hardness >6H
Touchscreen type	Capacitive touchscreen with multi-touch functionality

### RFID MODULE

Operating frequency	13.56 MHz
Transponder reading distance	do 50 mm
Supported standards	MIFARE (1K®, 4K®, Ultralight®, Ultralight® C), NTAG203, DESFire®, DESFire® EV1, MIFARE Plus 2K/4K

### SWITCHES

Quantity	5
Type	SPST-NO
Backlight	RGB
Insulation resistance	≥1 GΩ
Mechanical life cycle	1 000 000
Protection rating	IP65

### Power Supply

Nominal supply voltage	24 V DC
Permissible supply voltage range	+ 16,8 ÷ + 31,2 V DC
Maximum power consumption	22 W

### ETHERNET

Number of interfaces	2
Data transmission rate	100 Mb/s (X5) oraz 1Gb/s (X2)
Communication protocol	UDP/TCP/IP
Connector type	RJ-45 typu 8P8C

### CAN

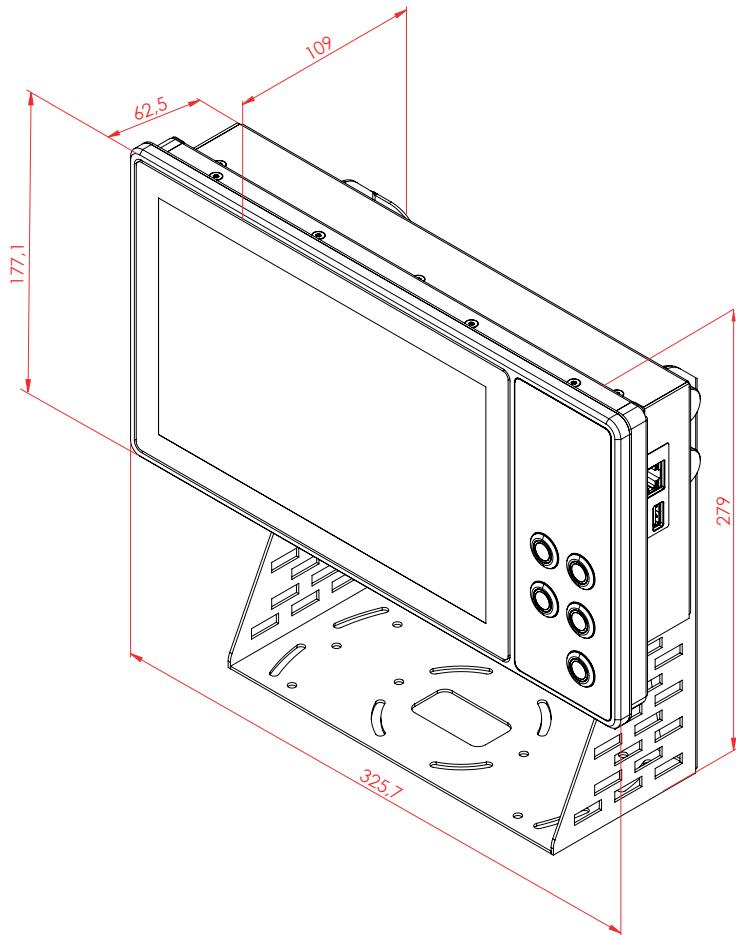
Number of interfaces	1
Data transmission rate	kb/s
Termination resistor	120 Ω
Galvanic isolation	5kV <sub>RMS</sub> / 4kV <sub>PK</sub>

### USB

Number of interfaces	1x USB 2.0 (X3) 1x USB 3.0 (X4)
Connector type	A

### RS-485

Number of interfaces	1
Data transmission rate	kb/s
Termination resistor	120 Ω
Galvanic isolation	2.5kV <sub>RMS</sub> / 4kV <sub>PK</sub>



## Compliance with standards

### **PN-EN 50155**

Railway applications – Rolling stock – Electronic equipment

### **PN-EN 50121-3-2**

Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus

### **PN-EN 45545-2+A1**

Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behavior of materials and components

### **PN-EN 61373**

Railway applications – Rolling stock equipment – Shock and vibration tests

### **TSI PRM point 5.3.2.7**

Technical Specification for Interoperability – Persons with Reduced Mobility – Section 5.3.2.7: Internal and external displays

