

Catalog Card

Platform Entrance Display

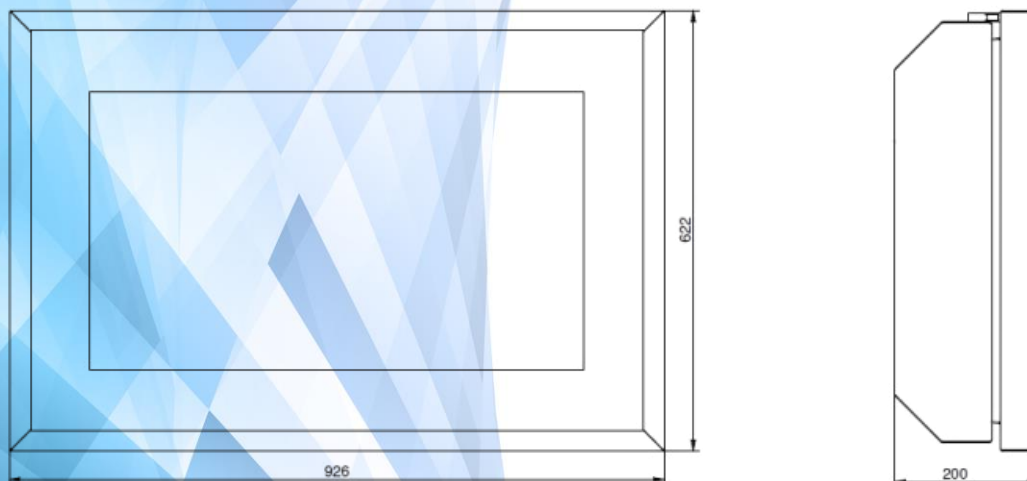
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PURPOSE, DEVICE CHARACTERISTICS

Entrance platform displays present information about the nearest train(s) departing, arriving or terminating from a given track or tracks adjacent to the platform. They are built on the basis of a professional LCD screen designed for continuous operation 24/7. They are installed on the walls at the exits to the platforms parallel to the axis of the communication route (passages under the tracks or a covered footbridge)

Inside the display, a highly efficient heating and cooling system is built in, combined with humidity and temperature sensors, maintaining proper working conditions inside the display, regardless of the climatic conditions at the installation site.



The construction of the Entrance is fully compliant with the current guidelines of PKP PLK SA Ipi-6 and good practices of PKP SA



Sat-System

Railway Systems

TECHNICAL DATE

Technical parameters	
Matrix	LCD - 32"
Active Surface	698,4 mm x 392,85 mm
Resolution	1920x1080
Contrast	3000:1
Luminance	2500 cd/m ² (set remotely or automatically based on sensor reading external lighting)
Observation angle	178°/178°
Vitality	80 000 h
Supply voltage	100 - 230VAC (±10%) 50-60Hz ±1%
Power consumption	320W/680W
Security	residual current; overcurrent; overvoltage
Sensors	Indoor temperature and humidity, case opening, shock, light sensor, glass breakage
Controller	backlight, sensors, heating and cooling system, for analysis and implementation of CSDIP commands, equipped with a hardware and software watchdog
Protocols	TCP/IP; SNMP V1, V2 i V3; UDP; NTP
Clock	300mm dial analog round displayed in z board header adjustable dial illumination
Operating temperature range	-40°C do +60°C
Dimensions	926mm x 622mm x 200mm
Libra	70kg
Case	Made of corrosion-resistant material, painted in RAL 5022
Housing tightness	IP-65 (according to PN-EN 60529:2003)
Level of security	IK-09 (according to PN-EN 5012:2001)

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ISO 9001:2015



IRIS™
Certification
IST/TS 22163:2017



AQAP 2110:2016



Świadcetwo
Bezpieczenstwa
Przemysłowego



Koncesja
MSWIA

COMPLIANCE WITH STANDARDS

Study name	Number and title of the standard	Requirements
Luminance measurement average display	PN-ISO 9241-305:2009E Human interaction ergonomics and system - Part 305: Methods laboratory tests optical monitors electronic screens	Point 6.6.1 of the standard An average luminance of 300 cd/m ² is required for the minimum brightness level and 2500 cd/m ² for the maximum brightness level. It is allowed to conduct the test by an independent non-accredited test body
Measurement unevenness luminance display	PN-ISO 9241-305:2009E Ergonomics of human-system interaction - Part 305: Laboratory test methods optical monitors electronic screens	Point 6.6.3 of the standard Display backlight uniformity of at least 90% is required It is allowed to conduct the test by an independent non-accredited test body
Cold resistance	PN-EN 60068-2-1:2009 Environmental research. Part 2-1: Trials. Trial A: Cold	For external devices: Sharpness: -40oC For indoor units: Sharpness: -10oC
Dry resistance hot	PN-EN 60068-2-2:2009 Environmental research. Part 2-2: Trials. Test B: Dry heat	For external devices: Sharpness: +55oC For indoor units: Sharpness: +45oC
Resistance to humid hot cyclical	PN-EN 60068-2-30:2008 Environmental research. Part 2-30: Trials. Test Db: Damp heat cyclic	For external devices: Sharpness: +55oC Humidity: 95%
Resistance to sinusoidal vibration	PN-EN 60068-2-6:2008 Environmental research. Part 2-6: Trials. Fc test: Vibration (sinusoidal)	For external devices: Frequency: 3 - 40 Hz Amplitude: 0.2 mm Frequency: 40 - 100 Hz Amplitude: 0.03 mm
Impact resistant mechanical	PN-EN 60068-2-27:2009 Environmental research. Part 2-27: Trials. Trial of Ea: Strokes	For external devices: Shock acceleration: 2g Shock duration: 11 ms
Grade check IP protection	PN-EN 60529:2003/A2:2014-07 Degrees of protection provided by enclosures (IP code)	Device testing without negative pressure. 1. Main stations: IP42 2. Edge: IP65 3. Entrance platforms: IP65 4. Collective station: IP65 5. Multi-functional displays: IP65
Grade check IK protection	PN-EN 50102:2001 Degrees of protection by external mechanical impacts provided by electrical equipment enclosures (code IK)	For external device enclosures: IK09 (IK08 for multifunction display buttons) For indoor unit enclosures: IK07

Measurement electromagnetic disorders conducted	PN-EN 55016-2-1:2014-09/A1:2017-12 Requirements for measuring equipment and disturbance measurement methods and immunity to disturbances - Part 2-1: Disturbance measurement methods and immunity tests - Conducted disturbance measurements	In accordance with the standards PN-EN 50121-1:2017-06 and PN-EN 50121-4:2017-04 Criterion B
Measurement electromagnetic disorders radial	PN-EN 55016-2-3:2017-06/A1:2020-01 Requirements for measuring apparatus and methods for measuring radio disturbances and immunity to disturbances - Part 2-3: Disturbance measurement methods and immunity tests - Disturbance measurements radiated	According to Norm PN-EN 61000-6-4:2019-12
Resistance to discharge electrostatic	PN-EN 61000-4-2:2011 Compatibility electromagnetic (EMC) - Part 4-2: Test and measurement methods - Immunity test electrostatic discharge	According to standards PN-EN 50121-1:2017-06 and PN-EN 50121-4:2017-04
Series resistance fast electrical states transitional	PN-EN 61000-4-4:2013-05 Compatibility electromagnetic (EMC) - Part 4-4: Test and measurement methods - Immunity test against bursts of electrical fast transients	According to standards PN-EN 50121-1:2017-06 and PN-EN 50121-4:2017-04
Impact resistant	PN-EN 61000-4-5:2014-10/A1:2018-01 Compatibility electromagnetic (EMC) - Part 4-5: Test and measurement methods - Surge immunity test	According to standards PN-EN 50121-1:2017-06 and PN-EN 50121-4:2017-04
Resistance to conducted disorders wired, induced by the field about frequencies radio	PN-EN 61000-4-6:2014-04 Compatibility electromagnetic (EMC) - Part 4-6: Test and measurement methods - Immunity to conducted disturbances induced by radio frequency fields	According to standards PN-EN 50121-1:2017-06 and PN-EN 50121-4:2017-04