AUDIO AMPLIFIERS
HUSAR WZM

PRODUCT GROUP
HUSAR PA

PRODUCTS IN SERIES
HUSAR WZM 2300
HUSAR WZM 4150

Scan for more detailed information
about the met standards
and testing of this product

- ☑ 100V technology - class D
- ☑ Internal faults monitoring system
- ☑ Automatic switching of damaged line
- ☑ Advanced DSP processor
- ☑ Preset creation, adjustable bass and treble
- ☑ Delay definition, audio channel matrixing
- ☑ Up to 16 ANS microphones per speaker line for SPL optimization

- ☑ 2 independent audio channels 300W each or optionally 4x150W
- ☑ High-efficiency redundant power supply
- ☑ Full compliance with present Polish Railways standard (PKP PLK S.A. approval)

HUSAR WZM series audio amplifiers are modern D-class powered amplifiers with a feature-rich DSP processor, enabling efficient and high sound parameters, even in the most difficult acoustic environment. The amplifiers are dedicated to work with passenger information systems at railroad platforms and station buildings, but due to their advanced features, they can also be used in other applications, such as airports. The amplifiers are part of the HUSAR PA product group and operate perfectly with the HUSAR AUDIO controller; HUSAR CT ANS background sensors and loudspeakers offered by SAT-SYSTEM.

Sat-System

TECHNICAL DATA OF NETWORK AUDIO AMPLIFIERS
HUSAR SIP WZM

Technical parameters	
Powered class	D
Output power	2x300W; 4x150W
Input power technology	100V
Loudspeaker outputs	2+2 Two separate speaker line circuits operating independently. Fitted with screw terminals.
Frequency range	20Hz - 20kHz
Efficiency	Power supply 94% active PFC, 90% amplifier, signal to noise ratio >80dBA, crosstalk , <70dBA at 1kHz load
THD distortions	0,0001%
Power adjustment	Automatic (using background microphones and DAC1502 controller), stepless 0%-100% in each channel (digitally from the controller - analogue on the back of the amplifier)
Power supply	Redundantne n+n 100 - 230VAC (±10%) 50-60Hz ±1%
Power consumption (av./max.)	5W, 150W/600W
Protections	Short circuit of the loudspeaker line (to ground and signal), overload, thermal
Reliability	Redundancy of power amplifier and n+n power supply, watchdog, temperature and humidity measurement, auto reset of power amplifier
Inputs	4x voiceover, 2x audio, presety, USB
Outputs	4x in background microphone line, 2x line IN audio, USB Audio, RJ45
Features	Redundancy of power supply and audio path (n+n), Watchdog, support for up to 16 background microphones per loudspeaker line, presets (Master, Slave, Audio Input Priority), Audio Power Down (time between input and full power-up >500ms)
DSP procesor	Delay, low- and high-frequency filtering, crackle filtering, limiter, input-output matrixing, presets (customisable per object with triggering by HUSAR AUDIO controller)
Operating temperaturę range	-5°C do +55°C and humidity of 20% to 90% non-condensing
Dimensions (W x H x D)	Rack 19" 2U - 482mm x 87,5mm x 260mm
Weight	7kg (optimised centre of gravity)
IP rates IK rates	IP-22 (PN-EN 60529:2003) IK-09 (PN-EN 5012:2001)

This data sheet is commercial in nature. If more detailed technical information is required, the reference document is the technical and operating documentation to be obtained from the manufacturer. In addition, the manufacturer reserves the right to make changes regarding the parameters, specifications and characteristics of the product. The dimensions of optional products, manufactured to order, will have different dimensions than those shown in this sheet. The document of general terms and conditions of supply can be found on the manufacturer's website - www.railway-systems.eu