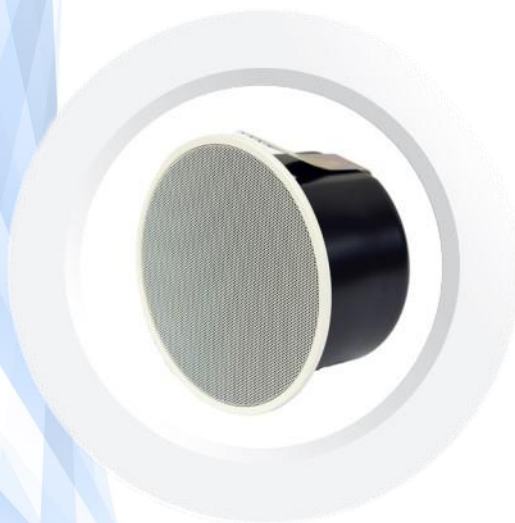


# Catalog Card

## Ceiling loudspeaker

### TYPE-As



Sat-System Sp. z o.o.  
Ul. Stanisława Staszica 47  
05-092 Łomianki  
E-mail:  
[sales@railway-systems.eu](mailto:sales@railway-systems.eu)  
[office@railway-systems.eu](mailto:office@railway-systems.eu)



ISO 9001:2015



IST/TS 22163:2017



AQAP 2110:2016



Świadectwo  
Bezpieczeństwa  
Przemysłowego



Koncesja  
MSWIA



# Sat-System

## Railway Systems

### PURPOSE, DEVICE CHARACTERISTICS

The TYP-As loudspeaker is a ceiling loudspeaker with invisible fixings and no border greater than 5 mm, installed in the ceiling with springs. The thickness of the ceiling should be in the range from 5-25mm. The speaker is equipped with a 5" transducer with a frequency range of 80 Hz - 20kHz, SPL speaker is 94 dB at 1 m at 1 W power. The loudspeaker has taps 6W, 3W, 1.5W, 0.8W at 100V and 3W at 70V.

### TECHNICAL DATE

Technical parameters	
Designation	TYPE-As
Frequency response	80Hz-20kHz
Connector	Push wire connection (bridge terminal -2 branches)
Efficiency (1W, 1m)	94 dB 500 Hz - 5 kHz, pink noise
Transducer	Cone type 12cm
Switchable power	6/3/1.5/0.8 W (100V)
Mounting hole	150mm
Operating temperature range	-10 °C to +50 °C
Dimensions	180 x 70 mm (∅ x D)
Materials	Steel sheet, Painted, White Beskid (RAL9016 or equivalent)
Libra	560g

The construction of the TYP-As internal loudspeaker is fully compliant with the current PKP PLK guidelines SA Ipi-6 and good practices of PKP SA

Sat-System Sp. z o.o.  
 Ul. Stanisława Staszica 47  
 05-092 Łomianki  
 E-mail:  
[sales@railway-systems.eu](mailto:sales@railway-systems.eu)  
[office@railway-systems.eu](mailto:office@railway-systems.eu)



## COMPLIANCE WITH STANDARDS

Test name	Number and title of the standard	Requirements
Dry resistance hot	PN-EN 60068-2-2:2009 Environmental research. Hi 2-2: Trials. Test B: Dry Hot	Category A speakers: Sharpness: +55oC
Humid resistance hot cyclical	PN-EN 60068-2-30:2008 Environmental research. Hi 2-30: Trials. Test Db: Moist hot cyclical	Category A speakers: Sharpness: +55oC Humidity: 90%
Grade check IP protection	PN-EN 60529:2003/A2:2014-07 Degrees of protection provided by enclosures (IP code)	IP44
Grade check IK protection	PN-EN 50102:2001 Degrees of protection by external blows guaranteed through device housings electrical (code IK)	IK07