



PHOENIX^{MDS} AVI AUTOMATIC VEHICLE IDENTIFICATION



Allocation of Measurement Data

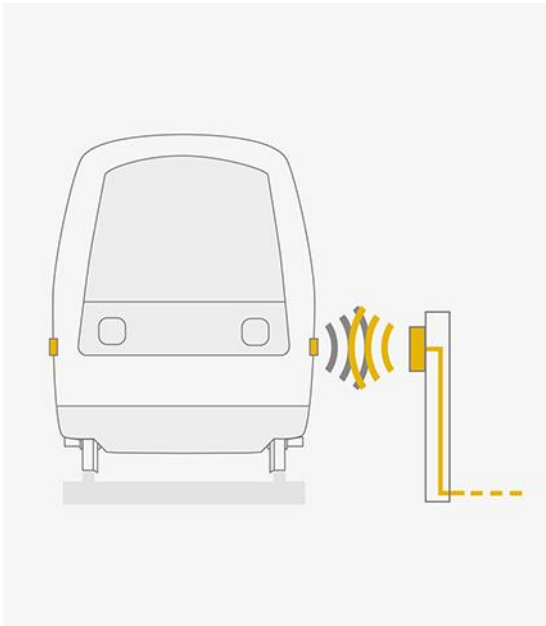
The function Automatic Vehicle Identification PHOENIX^{MDS} AVI enables the allocation of measurement data to the correct train set, vehicle and/or wheelset by using Radio Frequency Identification (RFID) technology. PHOENIX^{MDS} AVI reliably detects UHF transponders holding key information used in various railway applications.

This for example allows railway operating companies to efficiently manage and locate their rolling stock assets and optimize maintenance processes.

The AVI function integrates seamlessly with other PHOENIX^{MDS} functions and is tailored to railway specific applications and standards. Transponder data can be automatically filtered based on the information received so that only the desired information will be processed, assigned to other monitoring data or forwarded to the user.

Key Features

- » Identification of trainsets, vehicles and components
- » Allocation of measurement data to the correct wheelset and/or vehicle
- » GS-1 for rail compatible identification and decoding of tags
- » Condition based maintenance of railway vehicles
- » Simple installation
- » Firmware solutions for country specific frequency ranges
- » Auto-tune mode of antenna
- » Calibrated radiant power
- » Plug-and-play for easy installation and maintenance
- » Configurable filter functions
- » Tested and certified for railway environments around the world



READER APPROVED FOR RAILWAY ENVIRONMENTS

PHOENIX^{MDS} AVI identifies transponders using a compact UHF reader with integrated antenna. It is mounted along the track and emits radio waves. When a UHF transponder is within the reading lobe, it is automatically powered up and sends back the ID signal.

The rugged housing of PHOENIX^{MDS} AVI withstands harsh climates as well as the rough mechanical conditions around the track. It can be installed in a track side housing and offers

pole, floor or wall mounted installation options. Additional hardware for stand-alone operation or for media conversion can also be installed into this housing.

A quick installation and configuration of the system limits the actual working time needed alongside the track. Easily visible LEDs and an integrated beeper indicate positive identification results to the user that come in handy for service and maintenance purposes.

Technical Specifications

Train speed:	0 to 200km/h (tag dependent)
Antenna:	Integrated
Beam angle:	90°
Polarization	Circular
Reading/write distance:	up to 7m / 3.5m (tag dependent)
Frequencies:	EU: 865 to 868MHz, US: 902 to 928MHz (others upon request)
Air interface protocol:	EPC Class1 Gen2
IP class reader:	IP66
Environment:	-25 to +55°C 5% to 95% RH

Options and Variants

