V-COM

Communication systems for railway vehicles

Description

The voestalpine V-COM is a wireless communication system between rail vehicles and the V-COM receiver (Control Unit). The train identifies itself through the in-stalled transponder unit and communicates via an antenna loop located in the track bed.

The communication is bidirectional – from the vehicle to the receiver and vice versa. The activation signal for the transponder is emitted by the receiver. The data are transmitted via a Loop Transceiver to the voestalpine V-COM unit or from the unit to the vehicle.

After reprocessing, the data is suitable for further transmission to switch- or signal-controllers or third party IT systems.

System advantages

- Vehicle information about type, line, route, cat, punct, staff, fleet
- Triggering the relay circuit board
- Point position control
- Assigning priorities
- Automated vehicle tracking
- Transmission of data to third party systems
- Configuration via web interface
- Programmed data remains on the control board even in the event of a power failure

voestalpine Signaling
www.voestalpine.com/railway-systems

voestalpine
ONE STEP AHEAD.

FEATURES V-COM:

Technical Data

Item	Value
Environmental temperature	0°C ... +70°C
Environmental air humidity	0 % ... 95 % (rel)
Nominal operating voltage	24 V DC (+-10 %)
Nominal current consumption	Max. 500 mA
Range control unit / antenna loop	400 m (with shielded, twisted cable)
Dimensions front plates VCOM (HxWxD)	128,4 x 60,28 x 2,5 mm
Control and Bus Interface cards	100 x 160 mm
Dimensions circuit board (H x D)	190 mm
Total depth (with front plate)	77 x 138 x 38 mm
Dimensions relay circuit board (HxWxD)	2 A at 30 V