SOFTWARE HOUSE

DATA SHEET

Nedap® Automatic Vehicle Identification System

Features that make a difference:

- Provides a powerful extension to the C•CURE® 800/8000 security management system
- Read range up to 10 m (33 ft)
- Compact industrial design
- Weatherproof housing
- Reads objects traveling up to 200 km/h (125 mph)
- Well-defined adjustable read range
- Multi-channel frequency offset
- Variety of long range tags available for various applications

The Nedap Automatic Vehicle Identification (AVI) system is a long range microwave identification system that features automatic identification of vehicles from distances up to 10 m (33 ft). Positive identification does not require any action by the driver; the vehicle is automatically identified as it enters the identification range of the reader. The Nedap AVI System is comprised of a long distance standard TRANSIT reader and tags and, when used with the C•CURE 800/8000 system, provides a highly secure and convenient long range security solution.

TRANSIT Long Distance Standard Reader

The TRANSIT standard reader is a long-range vehicle identification reader with a built-in antenna and a wide variety of interfaces to ensure seamless and flexible integration. The reader can quickly identify Nedap AVI tags from distances of up to 10 meters (33 ft) with vehicles traveling at speeds up to 200 km/h (125 mph). Due to its long read range, the reader can be installed out of the reach of potential vandals.

Frequency Offset

The TRANSIT reader operates at a 2.438 to 2.457 GHz (2.400 to 2.480 GHz (Eur) frequency. Each TRANSIT reader has 32 channels (138 channels Eur) with 600 kHz spacing. This frequency offset enables you to set up to 32 readers in close proximity to each other at these different frequencies without interference.

Weather Proof Protected Housing

The TRANSIT reader is weatherproof with an IP65 (approx. NEMA 4x) certified housing. The reader will continue to operate reliably under harsh environmental conditions such as rain, snow and ice.

Interfaces and Protocol

In addition to its seamless and flexible integration with the C•CURE 800/8000 access control system, the TRANSIT reader is designed to work with other systems, such as parking management, traffic control, and loading control. The TRANSIT reader interfaces with the host system via Wiegand protocol. Customer specific protocols can be implemented on request.

Proximity Antenna Connection

The TRANSIT reader includes a 120 kHz module that allows connection to an additional proximity antenna. The connection adds flexibility in areas where a vehicle tag is not accessible.

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Tags

The Nedap AVI system offers a variety of long range, lithium-powered tags for various applications. The tags are programmed with random numbers in a 26-bit Wiegand format and feature an integrated mounting device to provide ease of installation.

Window Button Tag – Exceptional design that suits the interior of a passenger car. The Button tag can be installed in seconds with an integrated suction pad. There is an option for a push button version where the driver authorization is needed.

Compact Tag – Slim line RF credit card size tag that has a read range up to 7 m (23 ft). The tag allows identification of people in long and short range hands-free applications. Embedded proximity technology provides an interface to many applications, such as parking lot and building access, on one single card.

Window Tag – A credit card size tag that can easily be mounted behind the windshield of the vehicle. A switch model is also available with a push button for activation.

Heavy Duty Tag – Developed for applications requiring long-range identification in a harsh environment, such as explosive zones. The tag is weather, shock and vibration proof and can withstand chemicals.

Booster Unit – Attaches to the inside of the windshield and amplifies the read range of an inserted proximity card up to 10 m (33 ft). The Booster is ideal for applications in which drivers already have an ID card for access control to the building, time & attendance and vending machines. The Booster will read 26-bit, 37-bit and Corporate 1000 cards.

Model Numbers

TRANSIT Standard Long Distance Reader

NED-9875220 . . . . . .Long distance vehicle identification reader

Tags

NED-9882650 . . . . . .Window button tag

NED-9882480 . . . . . .Window button tag with switch

NED-9891900 . . . . . .Compact tag

NED-9892257 . . . . . .Compact tag with HID iCLASS™

NED-9848940 . . . . . .Booster HID Proximity tag

NED-9875689 . . . . . .Heavy duty tag

Accessories

NED-5626595 . . . . . .Reader pole mounting kit

NED-7562640 . . . . . .Reader weather protection hood

NED-5790190 . . . . . .Windshield tag holder for compact tag

Nedap TRANSIT Standard Reader

Physical, Electrical, Environmental & Regulatory

Operating Frequency . . . . . .2.400 to 2.482 GHz (Europe)
2.438 to 2.457 GHz (US)

Dimensions . . . . . .310 x 250 x 100 mm
(12.2 x 9.8 x 3.9 in)

Weight . . . . . .5 kg (9.9 lbs)

Housing . . . . . .Stainless steel (AISI304) housing with ABS cover

Protection . . . . . .IP65 (approx. NEMA4x)

Detection Range . . . . . .Up to 10 m (33 ft)

Range Check . . . . . .Acoustic by built-in beeper

Operating Temperature . . . . . .-30°C to 60°C (-22°F to 140°F)

Power . . . . . .230 VAC +10%, 100mA, 50 to 60 Hz
22 to 30 VDC, max 1A (Europe)
22 to 30 VDC, max. 1A (US)

Power Consumption . . . . . .<25 VA (on AC), <20 watt (on DC)

Frequency Offset . . . . . .32 channels US (138 channels Europe) channel spacing 600 kHz to avoid interference, to be used when TRANSIT readers are installed in close proximity of each other

Output . . . . . .26-bit Wiegand, 37-bit Wiegand, HID Corporate 1000

Antenna Connection . . . . . .1 external inductive antenna connection (optional)

Antenna Output . . . . . .120 kHz

Interfaces . . . . . .Wiegand

Encrypted Air Interface . . . . . .Nedap proprietary encryption standard

Mounting . . . . . .Wall mounting set includes pole mounting set and weather proof protection hood available (optional)

Certifications

EMC . . . . . .European directive for EMC 89/336/EEC, EN50081-1, EN50082-1 and EN50082-2. ETS0908

Safety . . . . . .EN 60950, UL 60950, UL 50

Regulations . . . . . .FCC part 15.245, ETS 300 440