

Digimoba elektronic

Manual Trackswitch ID Manager



The Trackswitch ID Manager is used to read and write RFID Tags, also called transponders. These transponders are available in various forms. Transponders in paper or in foil form are ideally suited as stickers for model railway purpose.

RFID (**R**adio **F**requency **I**dentification) is a technology that enables wireless identification and communication. The corresponding transponders are able to store data without their own energy source and, if necessary, transmit it to suitable reading devices.

In addition, a special protocol ensures that a collision of data from many transponders, which are simultaneously in the reading or writing area of the antenna of the ID Manager or other reader, is prevented. This means that only one transponder can be actively processed at a time.

This makes it possible, for example, to identify or mark model railway vehicles contactless. The transponders (Tags) in the form of paper stickers or foil stickers can easily be stuck on the underside or inside model vehicles. The information stored in these transponders can be read using the ID Manager or the reader module 4010.

The reader module 4010 can transmit the read information directly to a display module 9086 (with cable 8030) or via Trackswitch feedback bus (with feedback bus cable 8015--8019) to the control system Trackswitch or S88 feedback bus (with adapter cable 8032) to any other control system supporting S88 bus. In both cases, power is supplied via the bus cables.

Currently supported are four-digit numbers, which are displayed on the four-digit display module 9086. When the reader module 4010 is directly connected to the display module 9086, these two devices are powered by a normal USB charger and connection cable 8031 on the reader module 4010. The display module 9086 has been developed to fit the Digimoba track control panel. However, it can also integrate in self-developed track control panels.

Thus, this system is able to identify 10,000 (0000—9999) different vehicles. This is especially helpful in areas that are difficult or impossible to see on a model railway layout (incisions, fiddle yards, tunnels, poorly visible stations etc.) for the necessary overview of the whereabouts of the vehicles or entire trains. In connection with corresponding PC control programs, these numbers can also be used to trigger different routes or other actions. This means that routes for different trains can be guided differently, sound playback started, functions switched on, platform and other lighting switched on, speeds changed and much more.

To write a suitable transponder (Tag) with the ID Manager 4000 select the menu point "Transponder schreiben?" with the rotary encoder. Press the rotary knob briefly to select the thousands digit. The desired number can be set by turning the rotary knob. By pressing the rotary encoder, the next lower decimal point is reached to select the next number until all numbers have been entered completely. Press twice to dial the number with the question "Transponder schreiben? Bitte auflegen" appears. Now the transponder must be held parallel on the surface on the marking of the ID Manager. This number is written by pressing the rotary encoder again. You can also stop the process by turning the knob counterclockwise. The display asks you: "xxxx zurück?" xxxx stands for the selected number. By pressing the rotary knob, you can start entering the number from the beginning without having written this number, or by turning it clockwise you can return to the write query.

You can check whether the transponder has been correctly written by turning the rotary encoder counterclockwise and display shows "Transponder lesen?" Hold the transponder parallel to the surface above the marking. When the transponder has

been read out, the display changes to “Transponder gelesen:xxxx” for three seconds, where xxxx stands for the number read out.

You can read out a transponder again or return to the menu for describing a transponder by turning the rotary knob clockwise.

The transponders can be rewritten as often as required. Empty, still blank transponders show 0000 when they are read out, can of course also be written in this way again.

The ID Manager is powered by a USB mini cable from a standard USB charger that can be plugged into the side of the unit. Bothe is included in the scope of delivery.

The device can be updated via this USB connection and is therefore prepared for future innovations or expansions.

The appropriate transponders can be obtained from us. The mounting on or in the vehicles is unproblematic with two exceptions:

1. They must not be glued directly onto or behind metallic substrates. Metal of such magnitudes interferes with radio signals and makes there use impossible. Tests have shown that the distance between a transponder and a metal surface must be at least 10 mm.
2. The transponder must be placed as close as possible to the reader. So underside of a vehicle or inside on the underside if the reader is mounted under the track. Normal rails of a track limit the function only insignificantly. Depending on the size of the transponder, distance of 15----35 mm are possible.

The reader module 4010 consists of the actual module (blue) and the associated electronics. A coded 8-pole cable (enclosed) connects these two elements. The reading unit can easily be mounted under the desired track, and the function is also available under the track substructure. Therefore, retrofitting existing plants is relatively easy. Also here no metallic layers or foils should be present between vehicle transponder and reader.

The transponder technology can be used independently of the many different current systems and track gauges, whether analogue or digital. The mounting of transponders on model vehicle as well as the installation of readers under a track is relatively easy. The biggest advantage of this technology is that the existing electrical systems do not have to be interfered with. Track separations or track contacts are also not necessary! In addition, no special knowledge is required to use this technology.

Legal information:

This device is exclusively approved for the intended use in dry rooms. The power supply may only be providing from specially designed, approved and marked sources for model railways applications.

Not technical changes may be made to the power supply or to our device be unauthorized persons. Any liability for improper use or unauthorized modification is rejected.

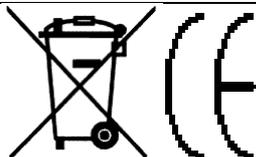
Reading this operating instruction is part of the intended use and is therefore necessary before using our device.

Not suitable for children under the age of 14.

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Anderungen im Sinne des technischen Fortschrittes vorbehalten.

Elektroaltgeräte gehören nicht in den Hausmüll! Bitte entsorgen Sie diese kostenfrei bei Ihrem örtlichen Entsorgungsunternehmen.



Digimoba Elektronik
Sudetenstraße 10
D-96253 Untersiemau
Tel.: 09565 488423
Fax.: 09565 488432
Ust-Id.Nr: DE814201353
WEEE-Nr : DE58841512
info@digimoba.de
www.digimoba.de