PhoneControl

Telephone adapter for
digital control EasyControl

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Manual

Information and tips:

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1. What is PhoneControl?

The PhoneControl is an adapter for connecting a commercial cordless telephone to the digital model railway controller EasyControl. It allows you to use the telephone´s hand set as external cordless control device. The adapter is connected to the EasyNet in addition to the central unit MasterControl.

The PhoneControl receives the control instructions from the cordless telephone and sends them to the MasterControl which passes on the instructions to the various decoders (locomotive, function, points or switching decoder) on your layout. The PhoneControl does not allow access to data in the locomotive database of the MasterControl or changing of the data.

The following cordless telephones do not operate with the PhoneControl:

- None known at present.

2. Getting started

Checking contents

Please make sure that your package contains:
- telephone adapter PhoneControl,
- patch-cable (RJ45) for connecting the PhoneControl to the MasterControl,
- telephone connecting lead (RJ12) for connecting the telephone´s base station,
- this manual.

Safety instructions

The PhoneControl should only be used in digital model railways in concordance with these instructions. It is not suitable for use by children under 14. Incorrect use can be dangerous. In particular there is a risk of electric shock through contact with metal parts under power, especially when an incorrect voltage is used, or when operated in a too humid or wet environment. Therefore the following precautions should be observed:

- Wiring should only be carried out when the control is disconnected.
- Only operate indoors in a dry environment.
- Only use proprietry transformers with the correct voltage.
- Only connect the transformer in an authorised manner to the house power supply.
- Use adequatly thick cable for all wiring. Too thin a cable can overheat.
- If the layout is exposed to condensation, allow at least two hours for drying out.

3. Connecting the PhoneControl

1 Telephone
2 External power supply
3 EasyNet

2

1   **3**
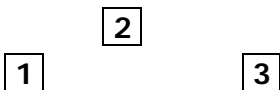
Connect the EasyNet interface of the PhoneControl via a patch cable (RJ45-cable) to the EasyNet interface of the MasterControl. Any Ethernet patch cable (used in computer networks) will work. You can interrupt or restore the connection of the PhoneControl to the EasyNet at any time – also during operation.

Connect the cordless telephone´s docking station via a telephone connecting lead (RJ12 cable) to the telephone interface of the PhoneControl. The PhoneControl ist not designed for the connection of standard telephones.

Connecting several decentralised control devices or adapters

You may connect up to 64 decentralised control devices or adapters to one EasyNet. If you intend to connect more than one control device you will also need:

- up two control devices: a distributor BusControl (optional extra). The BusControl is sufficient to control max. nine control devices. If you intend to connect further devices you need additional BusControls.
- up five control devices: an additional AC power pack (optional extra). An additional AC Power Pack is sufficient to supply eight further control devices. If you intend to connect further devices you need additional power packs.

Also see the BusControl's manual.

Functional test

Test the functioning after having connected the PhoneControl to the MasterControl and to the
Test the functioning after having connected the PhoneControl to the MasterControl and to the
telephone´s docking station. First switch on the hand set („lift the telephone earphone"). Next
push the button ⎢go⎢ at the MasterControl and then the button 9 (= ⎢stop⎢) on the hand set. After
having pushed the button 9 "STOP" should be shown in the display of the PhoneControl (or of the
MasterContol if you have a PhoneControl without display of it´s own).

In case that the test is not successfull,

- your cordless telephone might not operate with the PhoneControl (see section 1);
- an external power supply may be required (see following sections);
- the cordless telephone´s pin connections may differ from the connection of the
  PhoneControl´s telephone interface (see following sections).

External power supply

The internal power supply of the PhoneControl is sufficient for operation with most cordless
telephones. Some telephones need a higher voltage than supplied by the PhoneControl.

In case the functional test is not successful first check if the cordless telephone needs a higher
voltage supply, by connecting an AC transformer with 16 – 18 V and minimum 500 mA to the
PhoneControl´s transformer interface in addition.
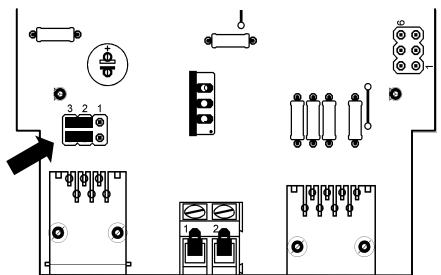
Pin connection of the telephone interface

Two different types of pin connection are in use with cordless telephones. However, you cannot
identify which type is used with your telephone from outside. The PhoneControl is preset to the
widest spread type.

In case the functional test is not successful and the connection of an external power supply does not
bring the PhoneControl into operation you should alter the pin connection of the PhoneControl´s
telephone interface. Here unscrew the cover and swap the jumpers´ position from 1-2 to 2-3.
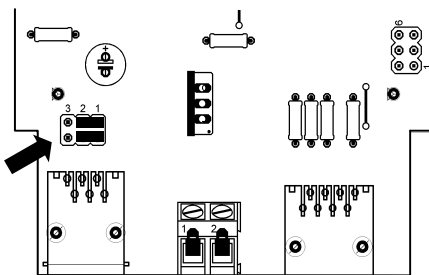
Standard connection: Differing connection:
Layout of the jumpers: 1-2.   Layout of the jumpers: 2-3.

5. PhoneControl Operation

When the hand set is connected with the EasyNet you can:

- select addresses of locomotive and function decoders,
- enter control instructions for locomotive and function decoders and
- enter switching instructions for points and switching decoders.

Unlike the external control device LokControl, you cannot read or alter data from the locomotive database of the connected MasterControl or alter configuration variables of locomotive and function decoders for the DCC format via maintrack programming.

Please note: Before entering instructions you first should switch on the hand set. Many cordless telephones can be preset to automatic switching on as soon as the hand set is taken out off the docking station.

Display

The PhoneControl is available with display as well as without display. Devices with display show the last called decoder address, the locomotive's name (if set), the corresponding data format, the set speed level, the driving direction and the switched-on functions. The display shows as well, if an active locomotive is accessable or not for other control units.

Selection mode

In the selection mode you can select the addresses of locomotive or function decoders you want to enter control instruction for, or make a reset of the PhoneControl. In order to access the selection push:

 0 and afterwards *

In the selection mode there are the following possibilities:

99 and afterwards #	Select a locomotive adress, example: address 99. After pushing # the PhoneControl switches automatically to the control mode.
*	Delete input
8 times *	Reset the EasyControl. After a reset the PhoneControl switches automatically to the control mode.

Control mode

In the control mode you can enter control instructions for locomotive and function decoders and switching instructions for points and switching decoders. After having switched on the layout, after a reset released by the PhoneControl or after having selected a locomotive address the PhoneControl switches automatically to the control mode. To switch directly from the selection mode to the control mode push:

 0 and afterwards #

Control instructions for locomotive and function decoders

1	Reduce the speed level by one level
2	Change the direction of travel
3	Increase the speed level by one level
4	Reduce the speed level by four levels
5	not used
6	Increase the speed level by four levels
7	Corresponds to button go
8	not used
9	Corresponds to button stop
* and afterwards 1	Switch a function, in this example function f1. In oder to switch the functions f0 and f2 to f8 enter the corresponding number instead of "1".
* and afterwards #	Accesses the previously selected locomotive. This function allows to switch easily and quickly between two locomotive addresses you want to control simultaneously.

Switching instructions for points and switching decoders

# and afterwards 87	Select the adress of a points or switching decoder, example: address 87
afterwards #	Points direction "straight on" or switching decoder output "on"
or afterwards *	Points direction "branching" or switching decoder output "off"

Special features

The hand set allows you to call existing double tractions and to enter control instructions for the first locomotive in a double traction. You can also cancel existing double tractions but it is not possible to create a double traction with the hand set

In order to lock an address you have to enter the locomotive address twice – exactly the same way as with the Master or the LokControl. To make these entries you have to go back to the selection mode after you have entered the address for the first time and enter the address again.

6. Technical Specifications

Power supply:	via EasyNet
Power consumption (without consumer):	approx. 150 mA
Interfaces:	EasyNet
Protection:	IP 00
Ambient temperature while operating:	0 - + 60 °C
Ambient temperature while not operating:	-10 bis + 80 °C
Maximum humidity:	max. 85 %
Dimensions:	approx. 100 x 90 x 35 mm

7. CE-Certification, EMC and warranty

CE-Certification

This product is developed and tested in accordance with the European standards EN 55014-1 and EN 61000-6-3. This product conforms with the EC- directive 2004/108/EG on electromagnetic radiation and is therefore CE certified.

EMC declaration

To guarantee the electromagnetic tolerance in operation you must take the following precautions:

- Connect the transformer only to an approved mains socket installed by an authorised electrician.
- Make no changes to the original parts and accurately follow the instructions included with this manual.
- Use only original spare parts if you have to repair module.

Guarantee Conditions

This product carries a two year garantee covering material defect and fabrication errors. We also guarantee the adherence to the product specifications, as long as the operation of this product has been conducted according to the instructions in this manual. Claims will be satisfied either through repair or replacement, failing this a reimbursement of the purchase price will be considered.

Claims that exceed the requirements of German law are not covered, in particular for damage or injury that may be brought in connection with the use of this product. Further more the following cases invalidate this guarantee:

- damage through incorrect or careless use,
- when the product has been modified or tampered with,
- when the product has been overloaded or connected to a incorrect power supply,
- damages caused by external influences i.e. a third party or an accident.