

1. DESCRIPTION

The wireless hand-held transmitters are part of the Niko RF system (Radio Frequency) that operates according to the Easywave protocol, an installation technique that does not require any wiring between the control points (push buttons) and the consumers to be operated. The hand-held transmitters have the shape of an ordinary remote control. Every transmitter can control an unlimited number of receivers simultaneously. These products are in conformity with EU regulations and comply with the essential requirements of the R&TTE directive: 1999/5/EC. The certificate of conformity can be obtained from the Niko support service.

2. OPERATION, USE AND PROGRAMMING

05-311

Hand-held transmitter 05-311 is a transmitter with 1 push button. You can only use the hand-held transmitter for 1-button control (see user manual receiver). You can control the receiver(s) by pressing the button once. The hand-held transmitter's control LED lights in confirmation.

05-317

Hand-held transmitter 05-317 is a transmitter with 4 push buttons. You can only use the hand-held transmitter for 1-, 2- and 4-button control (see user manual receiver). You can control the receiver(s) by pressing the button once. The hand-held transmitter's control LED lights in confirmation. Depending on the chosen mode on the receiver, you can control a number of circuits independently. For more details concerning the mode, see the user manuals of the receivers.



Receiver(s) in 1-button mode:

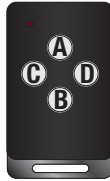
A, B, C and D operate as separate push buttons with which you can control max. 4 circuits independently.

Receiver(s) in 2-button mode:

A, B and C, D are pairs operating in 2-button mode with which you can control max. 2 circuits independently.

Receiver(s) in 4-button mode:

A, B, C and D are each part of the 4-button mode with which you can control max. 1 circuit independently.



05-312

Hand-held transmitter 05-312 is a transmitter with 13 push buttons and 4 channel selection buttons. For each of the 4 channels, there are 3 control points with 2 push buttons, 1 control point with 4 push buttons and 1 control point with 3 push buttons. Depending on the chosen mode on the receiver, you can control a number of circuits independently. For more details concerning the mode, see the user manuals of the receivers.

Receiver(s) in 1-button mode:

All push buttons operate as separate push buttons with which you can control max. 13 circuits per channel (52 circuits in all) independently.

Receiver(s) in 2-button mode:

The pairs A, B or C, D operate together in 2-button mode with which you can control max. 6 circuits per channel (24 circuits in all) independently.

Receiver(s) in 4-button mode:

A, B, C and D are each part of the 4-button mode with which you can control max. 1 circuit per channel (4 circuits in all) independently.

Note: for an number of 4-button modes (o.a. for shutter controls), buttons C and D have the same function. You can thus also assign these modes to the control point with 3 push buttons (at the bottom of the transmitter). This way, you can control 1 additional circuit per channel (4 additional circuits in all) independently.

Sending a signal:

Channel selection (buttons 1, 2, 3 and 4 top)

Press 1 of the 4 channel selection buttons to select a channel. The resp. red LED blinks for 30s.

Choice of function key

For as long as the red LED of the channel selection blinks, you can activate one of the 13 push buttons. Press one button to send a signal to the receiver(s). The LED lights for 1s (= min. time) or for as long as you press the push button (max. 36s.). The LED blinks again for 30s. During these 30s, you can activate another function key of the same channel. This is repeated until you send nothing for 30s (red LED goes out) or select another channel.

05-318

Hand-held transmitter 05-318 is a transmitter with 3 push buttons and 1 channel selection button. By means of the channel selection button, you can select 1 of the 5 channels. For each of the 5 channels, there are 3 push buttons. Depending on the chosen mode on the receiver, you can control a number of circuits independently. For more details concerning the mode, see the user manuals of the receivers.

Receiver(s) in 1-button mode:

A, B, and C operate as separate push buttons with which you can control max. 3 circuits per channel (15 circuits in all) independently.

Receiver(s) in 2-button mode:

The pair A, B operates together in 2-button mode with which you can operate 1 circuit per channel (5 circuits in all) independently.

Receiver(s) in 4-button mode:

For an number of 4-button modes (o.a. for shutter controls), buttons C and D have the same function. You can thus assign these modes to a hand-held transmitter.

A, B and C are each part of the 4-button mode With which you can control max. 1 circuit per channel (5 circuits in all) independently.

Sending a signal:

Channel selection (button K)

Press the channel selection button to select a channel. The last activated channel is selected. Afterwards, the red LED blinks each time you press the channel selection button. The LEDs indicate which channel is selected (if all LEDs light simultaneously, channel 5 (group channel) is selected). The LED of the selected channel blinks for 30s.

Choice of function key

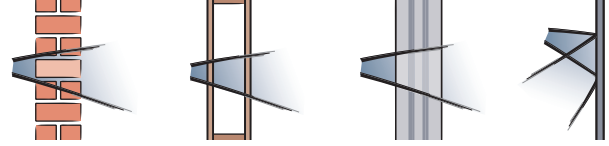
For as long as the red LED of the channel selection blinks, you can activate 1 of the 3 push buttons. Press one button to send a signal to the receiver(s). The LED lights for 1s (= min. time) or for as long as you press the push button (max. 36s.). The LED blinks again for 30s. During these 30s, you can activate another function key of the same channel. This is repeated until you send nothing for 30s (red LED goes out) or select another channel.



For instructions to program the RF system, refer to the user manual of the RF receivers that operate according to the Easywave protocol.

2.1. Range between wireless transmitters and receivers

Appliances with remote control such as TV, video and audio sets are not interfered by wireless transmitters. The transmitters do not have to be pointed optically towards the receiver. The range indoors is $\pm 30m$, in open field 100m. The ranges depend upon the materials used in the building. You can use the diagnosis unit 05-370 to determine the RF signal strength in a given environment. The appliance recognizes all 868,3Mhz signals. The receiver quality of the transmitter signal or the strength of interference is displayed by 9 LEDs. This way, you can determine whether the range of the RF transmitter is sufficient.



brick, concrete

loss: 20-40%

wood partitions and plaster walls

loss: 5-20%

reinforced concrete

loss: 40-90%

confined metal space

loss: 90-100%

2.2. Inserting/replacing batteries

Replace the battery if the LED blinks weakly or not at all during start-up.

- Remove the battery cover (for 05-312, use a screwdriver).
- Avoid direct contact with the battery to avoid discharging.
- The use of NiCd batteries is not allowed.
- Insert the new battery. Take into account the polarity. ('+' and '-' sign in the compartment).
- Use 3V CR2032 (2 batteries for 05-312).
- Klick (or screw down for 05-312) the battery cover back in place.
- Hand in used batteries at a recognized collection point.

2.3. Installation instructions and recommendations

NEVER place a transmitter:

- in a metal distribution box, housing or netting;
- in the immediate vicinity of large metal objects;
- on or near the floor.

3. TROUBLESHOOTING

If the system does not operate after programming, you can carry out a number of additional checks.

3.1. New installation

- Check whether the protection between the battery and the contacts in the transmitter has been removed.
- Check whether the battery and the contacts make good permanent contact.
- Check the mains voltage on the receiver in the distribution board.
- Check if everything is connected as indicated in the wiring diagrams (see user manual receivers).
- Reset and (re)program the receiver (see user manual receivers; programming).

3.2. Existing installation

- Check the batteries of the transmitter(s).
- Check the mains voltage (230V~) on the receiver.
- Check the operation of the connected load.
- Check for interference caused by changes in the system environment (metal cabinets, walls or furniture moved...) Restore the original condition, if possible.

3.3. Transmitter malfunction

Pick up the transmitter and walk towards the receiver.

- If the system works at reduced distance: the transmitter has been placed outside the transmitter range or there is an interference problem. You can also use the diagnosis unit (05-370) to measure the strength of the sent RF signal. For a transmitter outside the range, you can use the repeater (05-335).
- The system does not work even after placing it closer to the receiver; check the programming (see user manual receivers; programming) and/or the battery of the transmitter.

3.4. The system automatically switches on and off

- The system automatically switches on: This is only possible if a foreign transmitter was programmed in the receiver within the receiver range. Reset the receiver and reprogram the relevant addresses (see user manual receivers, programming).
- The system automatically switches off: this situation can be similar to the situation described above or be the result of brief current interruptions.

4. TECHNICAL DATA

4.1. Wireless hand-held transmitter 4 channels, 52 circuits (05-312).

Dimensions transmitter: 151 x 61 x 21mm

- transmitter range: 100m in open field, on average 30m indoors depending of the used materials.
- 4 channels and 13 push buttons = max. 52 circuits
- no wiring between control points and receivers to be controlled (RF controlled), only a connection between the receiver (switch) and the device to be operated.
- orientation (pointing) of the transmitters is not necessary (transmission of signals through non-metal walls is possible).
- operating temperature: 20 to 60°C

4.2. Wireless hand-held transmitter 1 channel, 1 circuit (05-311).

Dimensions transmitter: 56 x 36 x 16mm

Technical data identical to 05-312, but 1 channel and 1 push button = max. 1 circuit

4.3. Wireless hand-held transmitter 1 channel, 4 circuits (05-317).

Dimensions transmitter: 70 x 40 x 16mm

Technical data identical to 05-312, but 1 channel and 4 push buttons = max. 4 circuits

4.4. Wireless hand-held transmitter 5 channels, 15 circuits (05-318).

Dimensions transmitter: 112 x 39 x 18mm

Technical data identical to 05-312, but 5 channels and 3 push buttons = max. 15 circuits

TIP: consistent use of 1 OR 2-button modes increases the ease of use of these products.

NL

1. CE-MARKERING


 Dit product voldoet aan alle toepasselijke Europese richtlijnen en verordeningen. Voor radioapparatuur verklaart Niko nv dat de radioapparatuur uit deze handleiding conform is met Richtlijn 2014/53/EU. Indien van toepassing, kan de volledige tekst van de EU-conformiteitsverklaring geraadpleegd worden op www.niko.eu.

2. MILIEU


 Dit product of de bijgeleverde batterijen mag u niet bij het ongesorteerd afval gooien. Breng uw afgedankt product naar een erkend verzamelpunt. Net als producenten en importeurs speelt ook u een belangrijke rol in de bevordering van sortering, recycling en hergebruik van afgedankte elektrische en elektronische apparatuur. Om de ophaling en verwerking te kunnen financieren, heft de overheid in bepaalde gevallen een recyclingbijdrage (inbegrepen in de aankoop prijs van dit product).

FR

1. MARQUAGE CE

 Ce produit est conforme à l'ensemble des directives et règlements européens applicables. Pour l'appareillage radio, Niko SA déclare que l'appareillage radio de ce mode d'emploi est conforme à la Directive 2014/53/EU. Si d'application, le texte complet de la déclaration de conformité UE peut être consulté sur www.niko.eu.

2. ENVIRONNEMENT

 Vous ne pouvez pas mettre ce produit ou les batteries fournies au rebut en tant que déchet non trié. Déposez votre produit usagé à un point de collecte agréé. Tout comme les fabricants et importateurs, vous jouez un rôle important dans la promotion du tri, du recyclage et de la réutilisation d'appareils électriques et électroniques mis au rebut. Pour financer la collecte et le traitement, les pouvoirs publics ont prévu, dans certains cas, une cotisation de recyclage (comprise dans le prix d'achat de ce produit).




DE

1. CE-KENNZEICHNUNG


 Dieses Produkt erfüllt alle anwendbaren europäischen Richtlinien und Verordnungen. Für Funkgeräte erklärt Niko nv, dass die Funkgeräte aus dieser Anleitung der Richtlinie 2014/53/EU entsprechen. Falls zutreffend, kann der vollständige Text der EU-Konformitätserklärung auf www.niko.eu eingesehen werden.

2. UMWELT


 Sie dürfen dieses Produkt oder die mitgelieferten Batterien nicht über den normalen Hausmüll entsorgen. Bringen Sie Ihr ausgedientes Produkt zu einer anerkannten Sammelstelle. Genau wie Hersteller und Importeure spielen auch Sie eine wichtige Rolle bei Sortierung, Recycling und Wiederverwendung von ausgedienten elektrischen und elektronischen Geräten. Um die Abholung und Verarbeitung wiederverwertbarer Abfälle finanzieren zu können, ist im Verkaufspreis oftmals bereits eine obligatorische Recyclingabgabe enthalten.

EN

1. CE-MARKING

 This product complies with all of the relevant European guidelines and regulations. For radio equipment Niko nv declares that the radio equipment in this manual conforms with the 2014/53/EU directive. If applicable, the full text of the EU Declaration of Conformity can be found on www.niko.eu.

2. ENVIRONMENT


 This product and/or the batteries provided cannot be deposited in non-recyclable waste. Take your discarded product to a recognised collection point. Just like producers and importers, you too play an important role in the promotion of sorting, recycling and reuse of discarded electrical and electronic equipment. To finance the rubbish collection and waste treatment, the government levies recycling charges in certain cases (included in the price of this product).

SK

1. OZNAČENIE ES


 Tento výrobok spĺňa všetky relevantné Európske predpisy a nariadenia. Čo sa rádiových zariadení týka, spoločnosť Niko nv vyhlasuje, že rádiové zariadenia v tomto návode sú v súlade so smernicou 2014/53/EU. V prípade potreby môžete plné znenie Európskeho vyhlásenia o zhode nájsť na stránke www.niko.eu.

2. PROSTREDIE


 Tento výrobok a/alebo k nemu pribalené batérie sa nesmú likvidovať spolu s nerecyklovateľným odpadom. Svoj znehodnotený výrobok odneste na určené zberné miesto odpadu alebo do recyklačného strediska. Nielen výrobcovia a dovozcovia, ale aj vy zohrávate veľmi dôležitú úlohu v rámci podpory triedenia, recyklovania a opätovného používania odpadu vzniknutého z elektrických a elektronických zariadení. Aby bolo možné financovať zber, triedenie a spracovanie odpadu, vládva v určitých prípadoch odvádza poplatky za recykláciu (tie sú zahrnuté v cene tohto výrobku).

DK

1. CE MÆRKNING

 Dette produkt er i overensstemmelse med alle relevante europæiske retningslinjer og regler. For radioudstyr erklærer Niko nv, at radioudstyret i denne vejledning er i overensstemmelse med 2014/53 / EU-direktivet. Den fulde ordlyd af EU-overensstemmelseserklæringen kan findes på www.niko.eu.

2. MILJØ

 Dette produkt og/eller de medfølgende batterier må ikke deponeres i ikke-genanvendeligt affald. Det kasserede produkt skal afleveres til en genbrugsstation. Din rolle er lige så vigtig som producentens og importørens med hensyn til at fremme sortering, genanvendelse og genbrug af kasseret elektrisk og elektronisk udstyr. For at finansiere affaldssamlingen og affaldsbehandlingen opkræver regeringen i nogen tilfælde genbrugsafgifter (prisen på dette produkt er inklusiv disse afgifter).

SE

1. CE-MÄRKNING

 Denna produkt uppfyller alla relevanta europeiska riktlinjer och regler. För radioustrusting försäkrar Niko nv att radioustrutningen i denna handbok uppfyller direktivet 2014/53/EU. Vid behov kan den fullständiga texten till EU-försäkran om överensstämmelse läsas på www.niko.eu.

2. MILJÖ

 Denna produkt och/eller de medföljande batterierna får inte slängas bland icke-återvinningsbart avfall. Ta med din kasserade produkt till ett godkänt insamlingsställe. Precis som tillverkare och importörer spelar du också en viktig roll i arbetet för sortering, återvinning och återanvändning av kasserad elektrisk och elektronisk utrustning. För att finansiera avfallshämtning och avfallshantering tar myndigheterna i vissa fall ut avgifter (ingår i priset på produkten).

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