



User Manual

BMW Keywriter Production



BMW Keywriter Production (shielded RFID-System)



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1. General description of BMW Keywriter Production:

The product "BMW Keywriter Production" is a RFID Reader in a shielded enclosure, so it is possible to use several readers in the nearest distance and to read simultaneously.

2. Use of the BMW Keywriter Production:

2.1 Mechanical installation:

A 19 inch rack slide is prepared with 5 holes (mounting screws, USB plug, ground terminal)
The Keywriter is mounted with three 5mm screws. The screws must not be screwed more than 10mm into the housing of the Keywriter.

2.2 Electrical connection:

The Keywriter is connected to a personal Computer using the enclosed USB-A to USB-B cable.
An other power supply is not necessary.
The ground terminal is connected to the housing of the personal computer. Grounding is not required for safety, but recommended for perfect function.

2.3.1 Using the BMW Keywriter Production :

After connecting the BMW Keywriter Production to a personal computer the BMW Keywriter Production is set to operative mode.
To read a transponder place the transponder in the funnel located on the keywriter.
Then it is possible to read the transponder with the PC software.

2.4 LEDs:

In the Keywriter two RGB LEDs are built-in with the colors red, green and blue, which show the state of the Keywriter corresponding to the PC Software.

2.5 Loop antenna:

Inside the keyreader a loop antenna is positioned around the key funnel.
If you have problems reading a transponder please try to turn the transponder 90 degrees to improve the coupling.



2.6 shielded enclosure:

A shielded housing is necessary to eliminate interference from adjacent Keywriters.

This is due to the basic function of passive transponders:

A large transmitter field strength of the key writer is required because the transponder must be supplied with energy from the field. On the other hand, the relatively small signals of the transponder must be received. If a keywriter receives a signal from the transponder while the neighboring Keywriter is transmitting, the transponder signal must not be disturbed by the sending Keywriter.



3. regulatory notices

3.1 Certificate of Conformity (CoC)

CERTIFICATE OF CONFORMITY



CETECOM GmbH
EC Identification Number 0680



Bundesnetzagentur
authorized by the German Government to
act as Notified Body in accordance with the
RATTE Directive 1999/5/EC of 9 March 1999

BNNetzA-bS-13/51-58

Certificate Holder: Huf Tools GmbH Velbert
Güterstr. 17
42551 Velbert
Germany

Product Manufacturer: See Certificate Holder

Product Designation: BMW Keywriter Production

Product Description: Keywriter for transponder based vehicle keys
with integrated SRD functionality (125 kHz / 134 kHz)

Max. H-Field Strength: 125 kHz mode: -18.81 dBµA/m @ 10m /
134 kHz mode: -20.72 dBµA/m @ 10m
Antenna(s): Internal PCB Antenna
Temperature Range: 0°C – 35°C

Applied Specification(s)/Standard(s)	Evidence / Documentation	Result
EN 300 330-1, v1.8.1 / EN 300 330-2, v1.6.1	Test Report(s) no. 16-1-0032501T17a issued by: CETECOM GmbH	conform
EN 301 489-1, v1.9.2 / EN 301 489-3, v1.6.1	Test Report(s) no. 16-1-0032501T14a issued by: CETECOM GmbH	conform
EN 60950-1:2006 +AC:2011+A11:2009+A1:2010+A12:2011+A2:2013	Test Report(s) no. 1-2579/16-01-02 issued by: CETECOM ICT Services GmbH	conform

Statement of conformity:
We confirm that the evaluation of the submitted documents related to the apparatus fulfils the requirements or parts thereof in the above mentioned specifications. The scope of this evaluation relates to the submitted documents only.

Certificate Registration No.: R16-0037-01-CC

Place, Issue date CETECOM GmbH
Essen, 2016-11-10



Authorized signature



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3.2 FCC requirements

NOTICE:

This device complies with Part 15 of the FCC Rules

Operation is subject to the following two conditions:

this device may not cause harmful interference, and

this device must accept any interference received, including interference that may cause undesired operation.

NOTICE:

Changes or modifications made to this equipment not expressly approved by Huf Tools GmbH Velbert may void the FCC authorization to operate this equipment.