Installation and operating instructions
Interface module ISM7

Brief commissioning overview
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1 Commissioning overview

Step 1 - Installing the ISM7:

The following applies to the ISM7i (interface module without casing):

- If you have a CGB-2, CGW-2, CGS-2 or BWL-1S, please follow the procedure in chapter 5.2
- If you have an MGK-2, please follow the procedure in chapter 5.3.
- If you have a TOB, please follow the procedure in chapter 5.4.

If you want to commission an ISM7e (interface module with casing), please follow the procedure on page 23.

Step 2 - Connecting the ISM7 to the local network

Tip: For simplified commissioning instructions, please also refer to the enclosed ISM7 quick start guide.

If you have Windows 8 / 10 installed on your computer, please follow the instructions in chapter 6.1.
If you have Windows 7 installed on your computer, please follow the instructions in chapter 6.2.
If you have Windows Vista installed on your computer, please follow the instructions in chapter 6.3.
If you have Windows XP installed on your computer, please follow the instructions in chapter 6.4.

If only intend to use the ISM7 locally (no internet connection), only steps 1 and 2 are required. You can then operate the ISM7 in your network using the Smartset iOS app or the Smartset Android app.

Step 3 - Creating an account at wolf-smartset.de

See procedure in chapter 8.2.

Step 4 - Adding ISM7i to your account

See procedure in chapter 8.3.
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# Commissioning overview

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2 Documentation information

2.1 Other applicable documents
- Boiler installation and operating instructions
- Also applicable are the instructions for all accessory modules and any further accessories used.

2.2 Safekeeping of these documents
The system user or operator should ensure the safekeeping of all instruction manuals.
- Hand over these installation and operating instructions, along with all other applicable manuals, to the system user or operator.

2.3 Applicability of these instructions
These installation and operating instructions apply to interface modules ISM7i and ISM7e, both referred to as the ISM7 hereinafter.

Symbols and warnings
- Symbol for additional information
- Symbol for a necessary action
Warnings in the text warn you of possible risks before the start of an instruction. The warnings provide you with information on the possible severity of the risk using a pictogram and a keyword.

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<th>Pictogram</th>
<th>Keyword</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
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<td>!</td>
<td>Danger!</td>
<td>Risk to life or risk of serious injury</td>
</tr>
<tr>
<td>!</td>
<td>Danger!</td>
<td>Risk to life or risk of serious injury through electrocution</td>
</tr>
<tr>
<td>!</td>
<td>Warning</td>
<td>Slight risk of injury</td>
</tr>
<tr>
<td>!</td>
<td>Caution</td>
<td>Possible material damage</td>
</tr>
</tbody>
</table>

**Layout of warnings**

You will recognise warnings in these instructions by pictograms and a line above and below the warning section. These warnings are laid out as follows:

**Keyword**

*Type and source of risk.*

Explaination of the risk.

► Instruction to prevent the risk.
3 Safety and regulations
The general safety instructions must be observed.

3.1 Intended use
The ISM7 interface module is designed exclusively for use in conjunction with Wolf heating appliances and Wolf accessories. Intended use also includes observing the operating instructions and all other applicable documents. Any other or additional use is considered contrary to intended use. The manufacturer/supplier accepts no liability for any resulting damage. The user has sole liability for such use.

3.2 General safety instructions
The ISM7 interface module must be installed and commissioned by a qualified contractor. Only qualified contractors may carry out the electrical installation.

- Before working on the electrical installation, disconnect the power supply from the heating appliance and all connected components.
- Be aware that there is mains power to the electrics, even when the heating appliance mains isolator is off.
- Only replace damaged or faulty components with original Wolf spare parts.
- Do not remove, bypass or disable any safety and monitoring equipment.
- Only run the system when it is in perfect technical condition.
- Immediately rectify any faults and damage that impair safety.
- If the domestic hot water temperature is set above 60 °C, install a thermostatic water mixer.
- Route mains power cables with a voltage of 230 V in a separate location to the eBUS cables.
4 Overview

4.1 Appliance description

The ISM7 interface module enables remote access to components of the Wolf control system (WRS) via network and internet. It is connected to the WRS components via eBUS.
The ISM7 interface module enables you to display current states, readings and parameters of the WRS and make various settings.
The ISM7 is available in two versions, with the ISM7i designed for installation in a heating appliance.
The ISM7e is designed for installation outside a heating appliance and is supplied with a casing that is also suitable for wall mounting.
The ISM7 interface module can be integrated into an existing network either with a network cable (LAN) or wirelessly (WLAN).
For secure communication via the internet, an ISM7 interface module is linked to the existing DSL router, via which the secure connection to the Wolf portal server is established.

The system is operated over the internet either by means of the user interface of the Wolf portal operated via internet browser or by means of the "Smartset" smartphone app, which can be downloaded and installed from the appropriate app store.
No internet connection is required if access to the WRS is limited to the local home network.

Operation within the home network either occurs via the "Wolf Smartset" smartphone app or the Windows "Smartset" PC application (available to download from the Wolf website at www.wolf-heiztechnik.de).

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**Note:**

**Concurrent access**
A maximum of two users can access the WRS simultaneously via the ISM7 interface module.

**Local connection**
The app can be installed on multiple devices, although no more than one local connection may exist to the ISM7 interface module at any one time.
Overview

The ISM7i interface module is designed for installation in the following heating appliances:

- TOB oil condensing boiler
- MGK-2 gas condensing boiler
- CGB-2, CGW-2, CGS-2 gas condensing boiler
- BWL-1S split air source heat pump

The ISM7e interface module is designed for installation outside the heating appliance and can be mounted on a wall.

The ISM7 interface module can be operated with the following WRS components:

- BM, BM-2 programming unit
- COB, TOB oil condensing boiler
- MGK, MGK-2 gas condensing boiler
- CGB, CGB-2, CGW-2, CGS-2, FGB gas condensing boilers
- CGG-2, CGU-2 conventional gas boilers
- R2, R3, R21 boiler control unit
- BWL-1S split air source heat pump
- BWW-1, BWL-1, BWS-1 mono block heat pumps*
- MM mixer module
- KM cascade module (max. 1 per system)
- SM1, SM2 solar collectors (max. 1 per system)
- CWL Excellent Comfort mechanical ventilation system (max. 1 per system)

*Heat pump firmware 1.70 and later

**Note:**

**Compatibility**

Full functional scope only with appliances running current software versions!
4.2 ISM7i standard delivery

- Check the standard delivery using the following list.
  - ISM7i interface module (part no. 2745313)
  - Installation and operating instructions (part no. 3064577)
  - Quick start guide (part no. 3064576)
  - PCB-ISM7i connecting cable (part no. 2745292)
  - Network cable
  - 3 pce adhesive cable fasteners
  - Additional labels with serial number (SN), password (PW) and network name

4.2.1 ISM7e standard delivery

- Check the standard delivery using the following list.
  - ISM7e interface module (part no. 2745596)
  - Installation and operating instructions (part no. 3064577)
  - Quick start guide (part no. 3064576)
  - 3 pce cable strain relief (part no. 2765300)
  - USB cable for power supply
  - eBUS connecting cable
  - Network cable
4.3 Overview of ISM7i interface module

- Connection for connecting cable to the PCB of the heating appliance
- WLAN module
- RJ45 socket for connecting a network cable (patch cable), imprinted with serial number (SN), ISM7 password (PW) and network name
- LEDs: green, red, yellow
- Pushbutton

Overview of ISM7e interface module

- Eyelet for wall mounting
- ISM7 contact PCB
- Power supply connection (USB cable)
- eBUS connection
- Cable strain reliefs
- Cable entries
- WLAN module
- ISM7i interface module
- LAN connection imprinted with serial number (SN), ISM7 password (PW) and network name
- LEDs
- Pushbutton
- Eyelet for wall mounting
4.4 Function of the pushbutton

The pushbutton on the ISM7 interface module has the following functions:

When the pushbutton is pressed, the LEDs begin to light up one after another. The pushbutton is released when the relevant combination for the required function is shown.

<table>
<thead>
<tr>
<th>Button hold duration</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 1 s and &lt; 3 s Green LED</td>
<td>Setting of the fixed IP address 192.168.1.67 (release pushbutton when green LED illuminates). When the fixed IP address is set via the pushbutton, it is active until the next ISM7 restart.</td>
</tr>
<tr>
<td>≥ 3 s and &lt; 5 s Green and yellow LED</td>
<td>Start the WPS (release button when green and yellow LEDs illuminate)</td>
</tr>
<tr>
<td>≥ 10 s All LEDs</td>
<td>Reset – The ISM7 is reset to its factory settings (release pushbutton when all LEDs illuminate) The ISM7 must then be restarted. To do this, switch heating appliance OFF/ON (ISM7i) or unplug/plug in USB cable (ISM7e)</td>
</tr>
</tbody>
</table>

Pushbutton

LED
Green
Red
Yellow
### 4.5 Meaning of the LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green LED</td>
<td>OFF</td>
<td>No connection to Wolf portal</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>Connection being attempted to Wolf portal</td>
</tr>
<tr>
<td></td>
<td>Continuously lit</td>
<td>Connection to Wolf portal successful</td>
</tr>
<tr>
<td>Red LED</td>
<td>OFF</td>
<td>WLAN is not active (ISM7 communicates via network cable)</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>Connection being attempted with selected WLAN network</td>
</tr>
<tr>
<td></td>
<td>Flashing quickly</td>
<td>WPS active</td>
</tr>
<tr>
<td></td>
<td>Continuously lit</td>
<td>Successfully connected to selected WLAN network</td>
</tr>
<tr>
<td>Yellow LED</td>
<td>OFF</td>
<td>No eBUS connection</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>The individual components of the heating system are being determined</td>
</tr>
<tr>
<td></td>
<td>Continuously lit</td>
<td>eBUS communication successful</td>
</tr>
</tbody>
</table>
5 Installation / Electrical connection

**Danger!**
**Danger to life through incorrect installation!**
Incorrect electrical installation can cause a danger to life.
- Ensure that only a qualified electrician undertakes electrical the installation of the unit.
- All electrical work must be carried out in accordance with approved rules and guidelines.

**Danger! Danger to life through electrocution!**
The supply terminals are 'live' even when the switch is in the OFF position.
- Switch OFF the power supply to the appliances.
- Secure the power supply against reconnection.

5.1 Installation site requirements
Only install the ISM7i interface module in the specific installation locations intended. The ISM7e interface module may only be operated inside buildings and outside wet rooms.

<table>
<thead>
<tr>
<th>Module</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGB-2/CGW-2/CGS-2</td>
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</tr>
<tr>
<td>BWL-1S</td>
<td>5.2</td>
</tr>
<tr>
<td>MGK-2</td>
<td>5.3</td>
</tr>
<tr>
<td>TOB</td>
<td>5.4</td>
</tr>
<tr>
<td>ISM7e</td>
<td>5.5</td>
</tr>
</tbody>
</table>
5.2 Installation in CGB-2/CGW-2/CGS-2 and BWL-1S (ISM7i)

Switch OFF the heating appliance and associated components. Disconnect the power supply (MCB or heating emergency stop switch). Open (pivot out) the lower part of the front casing.

Open (pivot out) the cover of the installation compartment on the back of the control unit for the ISM7i.

Plug the connecting cable inside the installation compartment into the ISM7i.

Clip the ISM7i into the provided slot.

In the case of network connection by network cable (LAN), plug this into the RJ45 socket on the ISM7i. Now you can commission the ISM7i (see chapter 6). Then close the installation compartment cover and the front casing of the heating appliance.
5.3 Installation in MGK-2 (ISM7i)
How the ISM7i is installed in the MGK-2 gas condensing boiler depends on whether the network connection is intended to be made by cable (LAN) or wirelessly (WLAN).

5.3.1 Installation in MGK-2 - Network connection by network cable (LAN)
If the network connection is to be made by cable, the ISM7i is installed in the terminal box of the heating appliance. The terminal box is located on the right-hand side, behind the boiler casing. Switch OFF the heating appliance and associated components. Disconnect the power supply (MCB or heating emergency stop switch). Remove the r.h. front casing. Open the terminal box by undoing the four screws in the cover and removing the cover.

The terminal box contains the HCM-2 control unit. The ISM7i is installed in the casing of the control unit. Open the control unit cover.
Plug the connecting cable supplied with the ISM7i into the PCB and the ISM7i.

Clip the ISM7i into the provided slot.

In the case of network connection by network cable (LAN), plug this into the RJ45 socket on the ISM7i. Now you can commission the ISM7i (see chapter 6). Finally, close the cover of the control unit and refit the front casing.
5.3.2 Installation in MGK-2 - Network connection by WLAN

If the network connection is to be made by WLAN, the ISM7i is installed in the front panel of the heating appliance. The front panel is located on the left-hand side, behind the fascia.

Switch OFF the heating appliance and associated components.
Disconnect the power supply (MCB or heating emergency stop switch).
Remove the l.h. front casing.

Dismantle the front panel by undoing the four screws.

Plug the connecting cable already present in the panel (rear) into the ISM7i.
Clip the ISM7i into the slot provided in the front panel.

Now you can commission the ISM7i (see chapter 6). Finally, refit the front panel and front casing.
5.4 Installation in TOB (ISM7i)

With the TOB heating appliance, the ISM7i interface module is installed in the terminal box, which is fitted to the rear panel of the appliance on delivery. If the ISM7i is to be connected to the network by WLAN, we recommend fitting the terminal box in a position where a stable WLAN connection is available.

Switch OFF the heating appliance and associated components. Disconnect the power supply (MCB or heating emergency stop switch). Open the terminal box covers.
Plug the connecting cable supplied with the ISM7i into the PCB and the ISM7i.

Clip the ISM7i into the provided slot.

In the case of network connection by network cable (LAN), plug this into the RJ45 socket on the ISM7i.

Now you can commission the ISM7i (see chapter 6).

Finally, close the control unit covers.
5.5 Installing the ISM7e

For stationary use, mount the ISM7e interface module by inserting screws through the eyelets provided and securing them in a wall. For mobile use, take care to provide a safe location for the ISM7e interface module. When connecting the ISM7e to the home network via WLAN, place the ISM7e in a position with good WLAN reception and keep the depicted area free of metallic objects (e.g. cables and pipes).

Open the ISM7e by undoing the screw and lifting up the cover on this side.

Connect the cables as shown in the illustration. Please note that the network cable (LAN) must not be connected if WLAN is being used, as the WLAN module remains switched off when a network cable is connected.

Carefully break out the required cable entries with a suitable tool (e.g. needle-nosed pliers).
The ISM7e is supplied with power via a USB plug. For this, the USB plug can be connected to a free USB port on your laptop/PC or via the supplied USB power supply unit.

If the power supply connection is made via the USB cable provided, then the red core must be connected to the +5V terminal and the black core to the GND terminal.

Secure the connected cables with the cable strain reliefs.
Connect the eBUS cable to the eBUS service connection of your heating appliance or connect the ISM7 with a two-core lead (cross section >0.5 mm²) to the eBUS terminals of your heating appliance or accessory controller. In so doing, pay attention to the polarity.

You can now commission the ISM7e (see chapter 6).

When commissioning is complete, close the cover and secure it with the screw.
6 ISM7 network connection (local network)
A laptop or desktop PC with admin rights is required for commissioning.

Please also refer to the quick start guide.

If you have Windows 8 or 10 installed on your computer, please see chapter 6.1.
If you have Windows 7 installed on your computer, please see chapter 6.2.
If you have Windows Vista installed on your computer, please see chapter 6.3.
If you have Windows XP installed on your computer, please see chapter 6.4.

6.1 ISM7 network connection with Windows 8 / Windows 10
1. Disconnect the power supply from the ISM7. To do this, switch OFF the heating system (ISM7i) or unplug the USB cable (ISM7e).

2. Connect the ISM7 interface module directly to the laptop/PC with a network cable.

3. Reconnect the ISM7 power supply. To do this, switch ON the heating system (ISM7i) or plug in the USB cable (ISM7e).

4. Laptop/PC: Move the mouse pointer to the bottom left-hand corner of the desktop. The Start button appears.

5. Right-click on the Start button and select the "Control Panel" menu item.

6. In the newly opened window, select "Network and Internet" (if "Network and Internet" is not available, select "Network and Sharing Center"; see next step).

7. Select "Network and Sharing Center".

8. Select "Change adapter settings" from the menu bar on the left.

9. Right-click on the network adapter to which the ISM7 interface module is connected and select "Properties".
**Tip:** You can determine the correct network adapter by unplugging the network cable from the laptop/PC and plugging it back in again. The correct network adapter is the one for which the icon (little picture) changes.

10. Mark "Internet Protocol Version 4 (TCP/IPv4)" (click on the text, highlighting it in blue) and then click on "Properties".

11. Make a note of the set values:

12. Activate "Use the following IP address".

13. Enter 192.168.1.68 for "IP address".

14. Enter 255.255.255.0 for "Subnet mask".

15. Leave entries "Default gateway", "Preferred DNS server" and "Alternate DNS server" blank.

16. Confirm your entries by clicking on "OK".

17. Click on "Close" (important: settings are not stored until this step is completed).

18. **ISM7:** Activate the fixed IP address 192.168.1.67 of the ISM7 by pressing the pushbutton for 1-3 s (release when green LED illuminates).
19. **Laptop/PC:** With an internet browser, call up the configuration screen of the ISM7 by entering the fixed IP address 192.168.1.67 (in the input field).

20. Click on "Network" in the selection on the left.

21. Enter and confirm the following login data: User: admin  
Password: 1111.

22. "Obtain network settings automatically (DHCP)" remains activated.

23. Change the ISM7 password. The password must be at least 8 characters long and contain at least one lowercase letter, one uppercase letter and one digit or symbol.

**Tip:** On a slip of paper, make a note of the selected password under "ISM7 password". You will need this later.

24. Confirm your entries with "Save settings".

If the ISM7 is to be operated via WLAN, the following additional steps must be performed. If the ISM7 is to be operated via network cable, you can continue with step 29.

25. WLAN only: Click on "WLAN" in the selection on the left.

26. WLAN only: Log in with the user name "admin" and the ISM7 password specified in step 23.

27. WLAN only: Enter the WLAN access details.

28. WLAN only: Confirm your entries with "Save settings".

29. Switch OFF the heating appliance (ISM7i) or unplug the USB cable (ISM7e). If the ISM7 is operated via network cable, plug in the network cable of the target network now. Do not connect a network cable in the case of WLAN operation.

30. Switch ON the heating appliance (ISM7i) or plug in the USB cable (ISM7e).

31. Reinstate the original network settings of the PC/laptop.
6.2 ISM7 network connection under Windows 7

1. Disconnect the power supply from the ISM7. To do this, switch OFF the heating system (ISM7i) or unplug the USB cable (ISM7e).

2. Connect the ISM7 interface module directly to the laptop/PC with a network cable.

3. Reconnect the ISM7 power supply. To do this, switch ON the heating system (ISM7i) or plug in the USB cable (ISM7e).

4. Laptop/PC: Click on the Start button and the Start Menu appears.

5. Select "Control Panel".

6. In the newly opened window, select "Network and Internet" (if "Network and Internet" is not available, select "Network and Sharing Center"; see next step).

7. Select "Network and Sharing Center".

8. Select "Change adapter settings" from the menu bar on the left.

9. Right-click on the network adapter to which the ISM7 interface module is connected and select "Properties".

**Tip:** You can determine the correct network adapter by unplugging the network cable from the laptop/PC and plugging it back in again. The correct network adapter is the one for which the icon (little picture) changes.
10. Mark "Internet Protocol Version 4 (TCP/IPv4)" (click on the text, highlighting it in blue) and then click on "Properties".

11. Make a note of the set values:

12. Activate "Use the following IP address".

13. Enter 192.168.1.68 for "IP address".

14. Enter 255.255.255.0 for "Subnet mask".

15. Leave entries "Default gateway", "Preferred DNS server" and "Alternate DNS server" blank.

16. Confirm your entries by clicking on "OK".

17. Click on "Close" (important: settings are not stored until this step is completed).

18. ISM7: Activate the fixed IP address 192.168.1.67 of the ISM7 by pressing the pushbutton for 1-3 s (release when green LED illuminates).

19. Laptop/PC: With an internet browser, call up the configuration screen of the ISM7 by entering the fixed IP address 192.168.1.67 (in the input field).

20. Click on "Network" in the selection on the left.
21. Enter and confirm the following login data:
   User: admin   Password: 1111.

22. "Obtain network settings automatically (DHCP)" remains activated.

23. Change the ISM7 password. The password must be at least 8 characters long and contain at least one lowercase letter, one uppercase letter and one digit or symbol.

24. Confirm your entries with "Save settings".

Tip: On a slip of paper, make a note of the selected password under "ISM7 password". You will need this later.

If the ISM7 is to be operated via WLAN, the following additional steps must be performed. If the ISM7 is to be operated via network cable, you can continue with step 29.

25. WLAN only: Click on "WLAN" in the selection on the left.

26. WLAN only: Log in with the user name "admin" and the ISM7 password specified in step 23.

27. WLAN only: Enter the WLAN access details.

28. WLAN only: Confirm your entries with "Save settings".

29. Switch OFF the heating appliance (ISM7i) or unplug the USB cable (ISM7e). If the ISM7 is operated via network cable, plug in the network cable of the target network now. Do not connect a network cable in the case of WLAN operation.

30. Switch ON the heating appliance (ISM7i) or plug in the USB cable (ISM7e).

31. Reinstate the original network settings of the PC/laptop.
6.3 ISM7 network connection with Windows Vista

1. Disconnect the power supply from the ISM7. To do this, switch OFF the heating system (ISM7i) or unplug the USB cable (ISM7e).

2. Connect the ISM7 interface module directly to the laptop/PC with a network cable.

3. Reconnect the ISM7 power supply. To do this, switch ON the heating system (ISM7i) or plug in the USB cable (ISM7e).

4. **Laptop/PC:** Click on the Start button and the Start Menu appears.

5. Move the mouse pointer over the "Settings" menu item, a submenu appears.

6. Select "Control Panel".

7. In the newly opened window, select "Network and Sharing Center".

8. Select "Manage network connections" from the menu bar on the left.

9. Right-click on the network connection to which the ISM7 interface module is connected and select "Properties".

**Tip:** You can determine the correct network connection by unplugging the network cable from the laptop/PC and plugging it back in again. The correct network connection is the one for which the icon (little picture) changes.

10. Mark "Internet Protocol Version 4 (TCP/IPv4)" (click on the text, highlighting it in blue) and then click on "Properties".

11. Make a note of the set values:
12. Activate "Use the following IP address".

13. Enter 192.168.1.68 for "IP address".

14. Enter 255.255.255.0 for "Subnet mask".

15. Leave entries "Default gateway", "Preferred DNS server" and "Alternate DNS server" blank.

16. Confirm your entries by clicking on "OK".

17. Click on "Close" (important: settings are not stored until this step is completed).

18. ISM7: Activate the fixed IP address 192.168.1.67 of the ISM7 by pressing the pushbutton for 1-3 s (release when green LED illuminates).

19. Laptop/PC: With an internet browser, call up the configuration screen of the ISM7 by entering the fixed IP address 192.168.1.67 (in the input field).

20. Click on "Network" in the selection on the left.

21. Enter and confirm the following login data:
   User: admin   Password: 1111.
22. "Obtain network settings automatically (DHCP)" remains activated.

23. Change the ISM7 password. The password must be at least 8 characters long and contain at least one lowercase letter, one uppercase letter and one digit or symbol.

**Tip:** On a slip of paper, make a note of the selected password under "ISM7 password". You will need this later.

24. Confirm your entries with "Save settings".

If the ISM7 is to be operated via WLAN, the following additional steps must be performed. If the ISM7 is to be operated via network cable, you can continue with step 29.

25. WLAN only: Click on "WLAN" in the selection on the left.

26. WLAN only: Log in with the user name "admin" and the ISM7 password specified in step 23.

27. WLAN only: Enter the WLAN access details.

28. WLAN only: Confirm your entries with "Save settings".

29. Switch OFF the heating appliance (ISM7i) or unplug the USB cable (ISM7e). If the ISM7 is operated via network cable, plug in the network cable of the target network now.

30. Switch ON the heating appliance (ISM7i) or plug in the USB cable (ISM7e).

31. Reinstate the original network settings of the PC/laptop.
6.4 ISM7 network connection with Windows XP

1. Disconnect the power supply from the ISM7. To do this, switch OFF the heating system (ISM7i) or unplug the USB cable (ISM7e).

2. Connect the ISM7 interface module directly to the laptop/PC with a network cable.

3. Reconnect the ISM7 power supply. To do this, switch ON the heating system (ISM7i) or plug in the USB cable (ISM7e).

4. **Laptop/PC:** Click on the Start button and the Start Menu appears.

5. Move the mouse pointer over the "Settings" menu item, a submenu appears.

6. Select "Control Panel".

7. In the newly opened window, select "Network Connections".

8. Right-click on the network connection to which the ISM7 interface module is connected and select "Properties".

**Tip:** You can determine the correct network connection by unplugging the network cable from the laptop/PC and plugging it back in again. The correct network connection is the one for which the icon (little picture) changes.

9. Mark "Internet Protocol (TCP/IP)" (click on the text, highlighting it in blue) and then click on "Properties".

10. Make a note of the set values:
11. Activate "Use the following IP address".

12. Enter 192.168.1.68 for "IP address".

13. Enter 255.255.255.0 for "Subnet mask".


15. Confirm your entries by clicking on "OK".

16. Click on "Close" (important: settings are not stored until this step is completed).

17. **ISM7**: Activate the fixed IP address 192.168.1.67 of the ISM7 by pressing the pushbutton for 1-3 s (release when green LED illuminates).

18. **Laptop/PC**: With an internet browser, call up the configuration screen of the ISM7 by entering the fixed IP address 192.168.1.67 (in the input field).

19. Click on "Network" in the selection on the left.

20. Enter and confirm the following login data:  
    User: admin   Password: 1111.

21. "Obtain network settings automatically (DHCP)" remains activated.
22. Change the ISM7 password. The password must be at least 8 characters long and contain at least one lowercase letter, one uppercase letter and one digit or symbol.

**Tip:** On a slip of paper, make a note of the selected password under "ISM7 password". You will need this later.

23. Confirm your entries with "Save settings".

If the ISM7 is to be operated via WLAN, the following additional steps must be performed. If the ISM7 is to be operated via network cable, you can continue with step 28.

24. WLAN only: Click on "WLAN" in the selection on the left.

25. WLAN only: Log in with the user name "admin" and the ISM7 password specified in step 23.

26. WLAN only: Enter the WLAN access details.

27. WLAN only: Confirm your entries with "Save settings".

28. Switch OFF the heating appliance (ISM7i) or unplug the USB cable (ISM7e). If the ISM7 is operated via network cable, plug in the network cable of the target network now. Do not connect a network cable in the case of WLAN operation.

29. Switch ON the heating appliance (ISM7i) or plug in the USB cable (ISM7e).

30. Reinstate the original network settings of the PC/laptop.
6.5 Wi-Fi protected setup (WPS)

A WPS allows an ISM7 to be added to an encrypted WLAN network at the press of a button (router must support WPS).

1) Please note: Do not connect a network cable!
2) Switch ON the ISM7. To do this, switch ON the heating appliance (ISM7i) or plug in the USB cable (ISM7e).
3) Start the WPS function on your WLAN router by pressing the relevant button (Wi-Fi Protected Setup, Push Button Configuration).
4) Then (within 30 s) press the pushbutton on the ISM7 PCB for 3 – 5 seconds (release when green and yellow LEDs illuminate).
5) The red LED on the ISM7 starts flashing quickly. When it illuminates continuously, the connection has been established successfully.
6) After approx. 3 minutes, the yellow LED also illuminates constantly and a local connection can be established with the Smartset Android app or Smartset iOS app (ISM7 password: 1111)

If the process is not successful, reset the ISM7 and repeat the process (pushbutton >10 s).

Note:

If your network contains a WLAN repeater, please observe the following points:

Many WLAN repeaters have a WPS button that only serves to connect the repeater to the router. No new devices can be connected to the WLAN with this pushbutton.
To connect the ISM7 via WPS in this configuration, the WPS button on the router must be pressed. The ISM7 must be located within range of the router.
7 ISM7 configuration screen

The configuration screen is located on the ISM7 and can be accessed within your local network.

On the configuration screen, you can input the settings for your ISM7.

To call up the configuration screen, enter the IP address or network name (see ISM7 network socket) of the ISM7 into an internet browser (input field) on the laptop/PC. Your laptop/PC must be connected to the same network.

The Smartset apps also provide a link to the configuration screen.

7.1 Accessing the configuration screen

7.1.1 Via iOS app

1. Open the Smartset iOS app.
2. Select "Local connection".

Please note: The ISM7 and the smartphone must be linked to the same network.

3. The Smartset app searches for the ISM7 in the network.
4. Click on the info symbol next to your displayed ISM7.
5. Click on the link under "ISM7 website".
6. Your smartphone's internet browser opens and the ISM7 configuration screen is loaded.
7. Continue with quick start guide, point 3.

7.1.2 Via Android app

1. Open the Smartset Android app.
2. Select "Local connection".
Please note: The ISM7 and the smartphone must be linked to the same network.

3. The Smartset app searches for the ISM7 in the network.
4. Click on the info symbol next to your displayed ISM7.
5. Click on the link under "ISM7 website".
6. Your smartphone's internet browser opens and the ISM7 configuration screen is loaded.
7. Continue with quick start guide, point 3.

7.1.3 Via Smartset PC application
1. Open the Smartset PC application.
2. The system selection is displayed, showing the ISM7 interface modules available in the network.
   Please note: The ISM7 and the laptop/PC must be connected to the same network.
3. Click on the link for your ISM7 in the "ISM7 website" column.
4. A new page opens in the internet browser, onto which the ISM7 configuration screen is loaded.
5. Continue with quick start guide, point 3.

7.1.4 Determining the IP address via router
The IP address assigned to the ISM7 can be determined via the configuration menu of the router. Depending on the router used, the name "ISM7..." is displayed directly in the list of network nodes.
Please refer to the router manual for further information on this.
7.2 Explanation of the configuration screen

7.2.1 Overview
The status of the interface module, its serial number and the status of the LEDs are displayed under the "Overview" heading.

7.2.2 Network
In order to make changes to the configuration, first enter your user details (factory setting: user name "admin", password "1111").

If the interface module is to be operated with fixed network settings, deactivate "Obtain network settings automatically (DHCP)" and enter the relevant settings.

In addition, the ISM7 name and ISM7 password can be changed and an internet connection to the Wolf portal server can be enabled.
If the ISM7 password is changed, only this new, changed password can be used to log into the configuration screen from now on. The user name remains the same (admin).
Click on "Save settings" to save the entered settings.
To activate the adjusted network settings, the interface module must first be restarted (switch heating system OFF/ON or unplug/reinsert USB cable respectively).

**Note**
The ISM7 password is required for local connection to the ISM7 (smartphone apps).
The ISM7 password is also required if you add the ISM7 to your user account at wolf-smartset.de.

7.2.3 WLAN
In order to make changes to the configuration, first enter your user details (factory setting: user name "admin", password "1111").
In the case of interface module connection by WLAN, the data for the WLAN network used must be entered here: WLAN name (SSID), WLAN password and WLAN encryption (e.g. WPA, WPA2).
8 Wolf portal

The Wolf portal allows a Wolf heating system to be accessed remotely and securely via the internet by means of a convenient user interface operated from an internet browser. Following successful registration on the Wolf portal, free access is provided for operation of the available heating systems. In addition, you can purchase fee-based access to the contractor level of the portal. A Wolf customer number is required for this. Additional functionality is available in the contractor level, such as access to contractor parameters, log recording, graphic system depiction and interface settings (some functions are only available with chargeable contractor access). The Wolf portal is accessed via the following URL: http://www.wolf-smartset.de

8.1 System requirements

Operation of the portal is browser-based and independent of the operating system. Please note that an up-to-date internet browser is required for operating the Wolf portal. If necessary, please update your internet browser.

8.2 Registration

In order to gain access to the Wolf portal, you first need to register on the Wolf portal. You can then add systems to your user account.

Enter www.wolf-smartset.de in the address field of the internet browser. Select "I would like to register". Enter the user details (customer number not essential). Confirm your entries with "Register". A confirmation email will be sent to the email address you entered. Follow the instructions in this confirmation email. You will then be able to log in with the specified user details.

Note

Do not confuse your user account password with your ISM7 password. Multiple ISM7s may be added to one user account. The ISM7 password is required for adding an ISM7.
8.3 Adding a system

**Note**

After the power supply to the ISM7i has been established, it takes up to 5 minutes for the system to be available in the portal. The system is only connected to the Wolf portal server when the green LED illuminates continuously. After logging in to the portal, the system list is displayed. Click on "Add system". Enter the serial number and ISM7 password of the interface module.

**Note**

You can find the serial number on the network socket of your ISM7 and on the configuration screen, under "Overview". You defined the ISM7 password on the configuration screen, as part of the process described in chapter 6.

A system name may be entered as an option. If no system name is entered, the name stored in the ISM7 is used.

Confirm your entries with "Create".

The system appears in the system list.

When the system is connected to the Wolf portal, it's status is displayed as "online"
8.4 Using the Wolf portal

8.4.1 General information
After logging in, the system list of the registered user is displayed.

The system designation is shown in the "System" column.

If the system has been activated by another user, this user is shown in the "Activation by" column.

The "Access rights" column indicates the current authorisation. Possible access rights:
<table>
<thead>
<tr>
<th>Read only</th>
<th>User level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- display of parameters only</td>
</tr>
<tr>
<td>Read/write</td>
<td>User level</td>
</tr>
<tr>
<td></td>
<td>- display and changing of parameters</td>
</tr>
<tr>
<td>Contractor, read only</td>
<td>User level and contractor level</td>
</tr>
<tr>
<td></td>
<td>- display of parameters only</td>
</tr>
<tr>
<td>Contractor, read and write</td>
<td>User level and contractor level</td>
</tr>
<tr>
<td></td>
<td>- display and changing of parameters</td>
</tr>
</tbody>
</table>

The "Status" column provides information on the system status.

Possible system status:

<table>
<thead>
<tr>
<th>System online</th>
<th>The system is connected to the portal</th>
</tr>
</thead>
<tbody>
<tr>
<td>System offline</td>
<td>The system is not connected to the portal</td>
</tr>
<tr>
<td>System locked</td>
<td>The system password has been changed. Click on &quot;Info&quot; -&gt; &quot;Remove system block&quot; to enter the changed password and remove the system block.</td>
</tr>
</tbody>
</table>
Clicking on "Open" opens the corresponding system.

Clicking on "Info" calls up the system information, where further information can also be entered. It is also possible to remove a system block.

![System info]

Clicking on "Delete" allows the corresponding system to be deleted:

![Confirm delete]

If you click on "Activations", you can activate a system for one or more users to allow them access to the system:
Click on "Add" to enter the user name of the user intended to be given access.

The required authorisation level for the user can be entered under "Access rights". The authorisation level can be changed at any time.

A tick in the "Accepted" column indicates that an activation has been accepted.

A tick in the "Given back" column indicates that the activated user has deleted the system from their list.

Click on "Save" to confirm the entries.

The user who is being given access is sent an email containing an activation password.

This password allows the user to add the relevant system to their list by clicking "Activate system".
8.4.2 User level

Opening a system in the system list takes you to the system overview. The user level shows all the most important data for the heating system.

You can adjust the settings by clicking on "Change".

Click on "Save" to accept the changed value and transfer it to the system. The navigation bar on the left provides the option to switch to menu items "Fault message addresses" and "Fault messages". The "Contractor" menu item is only available if the user has fee-based contractor access.

Fault message addresses
Under "Fault message addresses", click on "Add" to provide email addresses to which system fault messages should be sent.
Click on "Save" to confirm the entry.

Fault messages

Under "Fault messages", the active fault messages and a fault message history containing the last 10 messages are displayed.
8.4.3 Contractor level

The contractor level is only available if the user has fee-based contractor access. In addition to those at the user level, further displays and functions are available at the contractor level.

Under "Contractor" a list of the existing heating system components is provided.

Under "ISM" you can gain access to the interface module on the system.

Under "Log" you can record system data.

"Save" is used for storing systems and "Download" for opening systems stored in the portal.

Heating system components

After selecting a heating system component, the associated details are displayed and the relevant hydraulics depicted in a diagram.
Example - Solar collector SM2:
Selecting the "Parameters" tab calls up a list of the associated contractor parameters. These can be adjusted if you have the necessary access rights. Example - Solar collector SM2:

You can adjust the settings by clicking on "Change".

Click on "Save" to accept the changed value and transfer it to the system.
ISM settings

Selecting the "ISM" menu item calls up the settings for the interface module of the relevant system.

![ISM Settings Table]

Log

Under "Log", system data can be recorded. First use the "Settings" tab to select which values are to be logged.

![Log Settings Table]

Click on the relevant values in the selection list to mark them, then use "Add" to add them to the selection. Clicking "Remove" removes them from the selection.
After selecting the values to be logged, click on "Start" to begin recording. The display then switches to the graph.

The "Recording" tab provides a list of the logged values.
Use "Save to hard drive" to save the recording.

Click on "Save on hard drive for Excel" to save the recording as a csv file that can be opened and edited using Excel.

Click on "Open log" in the navigation bar on the left to open a saved recording.

**Save in archive**

Clicking on "Save in archive" in the navigation bar on the left saves the system and all its settings in the portal.

**Save to hard drive**

Clicking on "Save to hard drive" in the navigation bar on the left allows the system to be saved to the local computer.

**Archive**

Clicking on "Archive" in the navigation bar on the left takes you to the archive containing the stored system data. Here you can click on "Open" to open the stored systems.

Use the "Change" option to enter comments.

Click on "Delete" to erase the system from the archive.

Click on "Import from hard drive..." to import system data from the local computer and open it in the portal.

An opened system can be written back from the archive to the actual system by clicking "Transmit system".
9 Smartphone app (Smartset)

The Wolf "Smartset" smartphone app enables secure access to components of the Wolf control system (WRS) via a local connection or via the Wolf internet portal server.

The most important data for the heating system in question is displayed and various standard settings can be adjusted.

9.1 System requirements

The "Wolf Smartset" app is available for devices running iOS or Android as a free download from the Apple Appstore or Google Play store.

iPhone version 4 or later, with iOS 7 operating system or later, or smartphone with Android operating system version 4.1 or later.

9.2 Establishing a connection to the system

The connection to the heating system can be established either via a local connection or via an internet connection using the Wolf portal. The preferred connection type is selected after starting the app:

In order to access the system via the Wolf portal, you need to be registered on the Wolf portal. The heating system must be available in the system list in the portal (see chapters 8.2 and 8.3).
9.2.1 Local connection

If the app is to be used within the same network as the heating system with the ISM7 interface module, then no internet connection is required. Communication takes place directly via the existing router.

1) Select "Local connection".

2) A list containing the available systems is displayed.

3) Select the required system.

4) Enter the ISM7 password
   (factory set password: 1111, or changed password).

5) Click on "Connect".
9.2.2 Internet connection via Wolf portal

If the app is to be used outside the local network containing the heating system with the ISM7 interface module, then an internet connection is required. Communication then takes place via the Wolf portal server.

**Note**

After the power supply to the ISM7 has been established, it takes up to 5 minutes for the system to be available in the portal (green LED illuminates continuously).

1) Select "Internet connection".

2) Log in to portal with user name and password.

3) Select the required system under "Menu / System selection".
9.3 Operating Wolf Smartset

9.3.1 Home level
The home level shows all the most important data for the individual heating components.
You can switch between the pages for the individual components by swiping.

On fields with white backgrounds actions can be performed by tapping on the buttons. Values can be entered (e.g. set values) or other dialogues opened (e.g. time program). Display-only values have grey backgrounds.
9.3.2 Info

The installed version of the app is shown under Info. Company details, conditions of use and the data protection statement can also be called up here.

Fig: iOS App

Fig: Android app

9.3.3 Menu

If an internet connection exists, the user logged into the portal is shown under Menu. Use "System selection" to select a system from the list of available systems. Use "Language" to select the required language. Tap on "Log out" to log out of the portal.

Fig: iOS App

Fig: Android app
9.3.4 Faults

Under "Fault messages", active fault messages are displayed including plain text message and fault code. Information on where the fault occurred is displayed below the fault message.

Fig: iOS App

Fig: Android app
10 PC application (Smartset)

The Wolf "Smartset" PC application enables secure access to components of the Wolf control system (WRS) via a local connection. The local connection can be established using WLAN or LAN via a router or by direct connection.

The PC application has the same look and functionality as the WOLF internet portal with contractor level. The sole exception is the fault message management, which is an internet portal service and therefore not available in the PC application.

10.1 System requirements
Windows Vista / 7 / 8

Min. 2 GB free RAM

2 GB free hard disk space

Current internet browser

10.2 Installation
The installation file can be downloaded from the Wolf homepage at http://www.wolf-heiztechnik.de/downloads. Please observe the contents of any associated README text file.
10.3 Establishing a connection to the system

The connection to the heating system is established via a local connection, no connection to the Wolf portal or the internet is required.

The ISM7 must be connected via a WLAN or LAN connection to the computer running the Smartset PC application, either directly or via the home network router. Only one instance of the application may run at one time on a computer that enables connection to an ISM7.

When the application is started, the Microsoft Internet Information Services (IIS) Express service creates a virtual service on the PC. This process can take several minutes.

The browser is opened and the virtual server user interface displayed. All ISM7 interface modules connected to the same network are sought and displayed for selection.

Click on "Refresh" to start a new search for ISM7s in the local network.

When opening a system, the assigned ISM7 password must be entered (factory setting: 1111). After successful password entry, the system parameters for the user level are captured and the user level opens. Further operation is analogous to that of the internet portal.
10.4 Operating Smartset

The PC application is operated in the same way as the internet portal (see chapter 8).

Any recording ("log") in progress is paused as soon as the browser or web server (IIS Express) is closed or the connection between computer and ISM7 interrupted. Recording is continued when the ISM7 is reopened in the system selection.
11 Decommissioning and disposal

11.1 Shutdown

 When decommissioning the ISM7 interface module, follow the installation sequence in reverse order.

 Dispose of the ISM7 interface module correctly.

11.2 Disposal and recycling

Appliance

At the end of its service life, do not dispose of the ISM7 interface module in the household waste.

 Ensure that the ISM7 interface module and any accessories used are disposed of correctly.

Packaging

 Ensure that the packaging of the ISM7 interface module and any accessories used is disposed of correctly.
# 12 Specification

## 12.1 ISM7i

<table>
<thead>
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<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>24 VDC via PCB</td>
</tr>
<tr>
<td>WLAN standard</td>
<td>IEEE 802.11b/g/n, 2.4 GHz, channel 1 to 11</td>
</tr>
<tr>
<td>LAN</td>
<td>RJ45, 10/100 Mbits</td>
</tr>
<tr>
<td>ISM7i dimensions (WxHxD) in mm</td>
<td>47x100x18</td>
</tr>
<tr>
<td>Operating temperature/humidity</td>
<td>0-60 °C / 20-90 % r.h. non-condensing</td>
</tr>
<tr>
<td>Storage conditions</td>
<td>-30-70 °C / 0-95 % r.h. non-condensing</td>
</tr>
</tbody>
</table>

## 12.2 ISM7e

<table>
<thead>
<tr>
<th>Designation</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>5 VDC via USB-A plug</td>
</tr>
<tr>
<td>WLAN standard</td>
<td>IEEE 802.11b/g/n, 2.4 GHz, channel 1 to 11</td>
</tr>
<tr>
<td>LAN</td>
<td>RJ45, 10/100 Mbits</td>
</tr>
<tr>
<td>Dimensions (WxHxD) in mm</td>
<td>83x160x31</td>
</tr>
<tr>
<td>Operating temperature/humidity</td>
<td>0-60 °C / 20-90 % r.h. non-condensing</td>
</tr>
<tr>
<td>Storage conditions</td>
<td>-30-70 °C / 0-95 % r.h. non-condensing</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP30</td>
</tr>
</tbody>
</table>
13 Other

13.1 Using the ISM7 without a DSL connection
As an alternative to a DSL router, you can also use a 3G router for operating the ISM7. Please ensure that good reception is available at the 3G router's installation location.

Experience shows that a monthly data volume of 30 to 100 MB can be expected.

13.2 No proxy support
Internet connections via proxy servers are not supported.
DECLARATION OF CONFORMITY
(to ISO/DIN 17050-1)

Number: Part no. 2745313, part no. 2745596
Issued by: Wolf GmbH
Address: Industriestrasse 1, D-84048 Mainburg
Product: ISM7i interface module, ISM7e interface module

The product described above conforms to the requirements specified in the following documents:

EN 50581:2012
EN 300 328 V1.8.1 (2012-06)
EN 301 489-17 V2.2.1 (2012-09)
EN 301 489-1 V1.9.2 (2011-09)
DIN EN 60 730-1:2011

In accordance with the following Directives

2004/108//EC (EMC Directive)
2006/95/EC (Low Voltage Directive)
2011/65/EU (RoHS Directive)
1999/5/EC (R&TTE Directive)

this product is identified as follows:

Mainburg, 10/07/2015

Gerdewan Jacobs
Engineering Director

Klaus Grabmaier
Product approval
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</tr>
<tr>
<td>ISM7i</td>
<td>11</td>
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