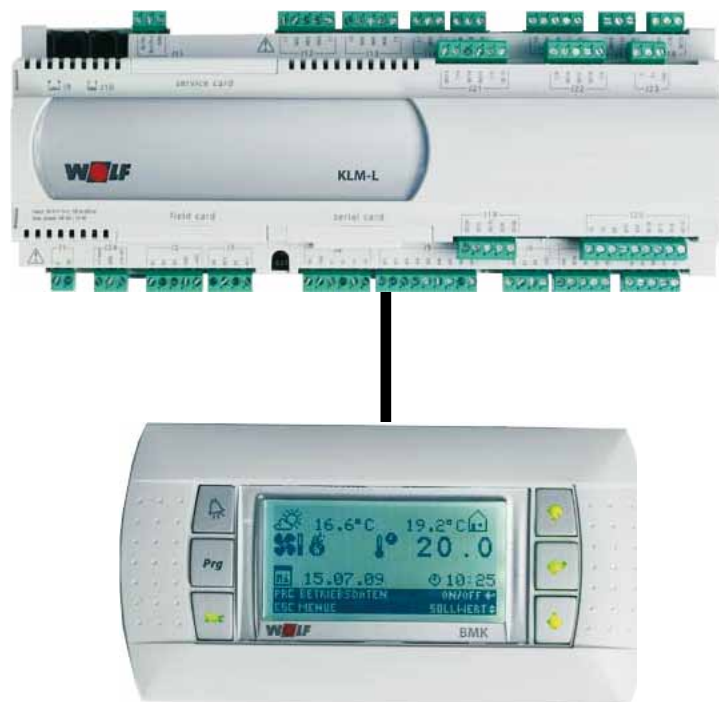


Configuration wizard

WRS-K



Valid for software version 2.1.024 or higher

Wolf GmbH · Postfach 1380 · D-84048 Mainburg · Tel. +498751/74-0 · Fax +498751/741600 · Internet: www.wolf-heiztechnik.de

Document no. 3062933_0511 Subject to technical modifications

Contents	Page
1. Installation / commissioning / operating overview	3
2. Post-configuration, air quality / CO ₂ sensor	4
3. Post-configuration, remote control.....	5-6
4. Post-configuration, LON / BacNet / ModBus	7-8
5. Post-configuration, pressure / flow rate control	9-12
6. System configuration	13-17
7. Restoring factory settings	18
8. Notes	19

1. Commissioning

- According to DIN EN 50110-1, only qualified electricians may carry out the installation and commissioning of the ventilation control unit and connected accessories.
- Observe all regulations stipulated by your local power supply utility and all VDE or local regulations.
- DIN VDE 0100 regulations regarding the installation of high voltage systems up to 1000 V.
- DIN VDE 0105-100 operation of electrical systems.
- Only original Wolf accessories may be used (electric heater bank, condensate pump, servomotors, etc.), otherwise, Wolf cannot provide a warranty.

Operating overview



- ① Displaying and acknowledging active fault messages
- ② Displaying the system operating data (set / actual values)
- ③ Access to the main menu
- ④ Forward scrolling within a menu and increasing values
- ⑤ Switching the system on and off, selecting menu points, confirming inputs
- ⑥ Backwards scrolling within a menu and reducing values

2. When retrofitting an air quality sensor (mixed gas or VOC,CO₂) follow the instructions below.

Please press **Prg** and **Esc** for approx. 2 sec. and enter manufacturer password 4711.

Configuration

Configuration
Manufacturer password
4711

Select Inputs/outputs with **↑↓** and confirm with Enter **↵**

Inputs/outputs
System parameters
Alarm management

Select Analogue inputs with **↑↓** and confirm with Enter **↵**

Manufacturer menu
Digital inputs
Analogue inputs
Digital outputs
Analogue outputs

Select Air quality sensor with **↑↓** and confirm with Enter **↵**

Configuration 15
Analogue inputs
Air quality sensor
B-
Type 0-10 V
ESC CANCEL ↵ SAVE VALUE ⇅

Enter B08 with **↑↓** and confirm with **↵**, type 0-10 V, confirm with Enter **↵**

Configuration 15
Analogue inputs
Air quality sensor
B08 KLM-M/L
Type 0-10 V
ESC CANCEL ↵ SAVE VALUE ⇅

The input has been configured
Hold down **Esc** button until you jump to the standard screen

Activation

11.4°C 18.5°C
21.0
20.03.09 11:02
PRG OPERATING DATA ON/OFF ↵
ESC MENUS SET VALUE ⇅

Press **Esc** button

Main menu
Standard settings
Displays
Time functions
Heating contractor
ESC BACK ↵ SELECTION DISPLAYS ⇅

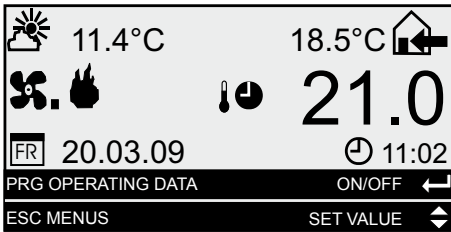
Select Standard settings with **↑↓** and confirm with Enter **↵**

Select Air quality control with **↑↓** and set to Yes with Enter **↵**

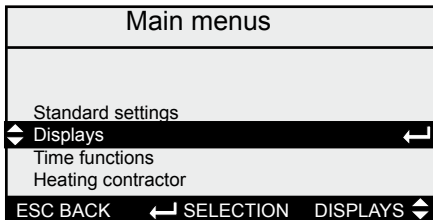
Standard setting GE-26
Air quality control active
 (No)
ESC BACK ↵ SELECTION DISPLAYS ⇅

Control is enabled
Hold down **Esc** button until you jump to the standard screen

3. When retrofitting a remote control, follow the instructions below.



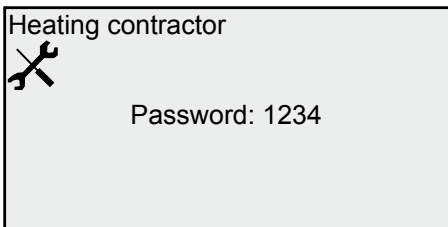
Press **Esc** button



Select Heating contractor with $\uparrow\downarrow$ and confirm with Enter \leftarrow



Continue with \leftarrow



Select 1234 with $\uparrow\downarrow$ and confirm with Enter \leftarrow

Heating contractor - menus	
Alarm management	
Service	
Other	←
Night ventilation	
Limits	
ESC BACK	← SELECTION DISPLAY ↕

Select Other with ↑↓ and confirm with Enter ←

Other...	S-02
Remote control installed?	No
ESC BACK	← SELECTION DISPLAY ↕

Confirm with ←

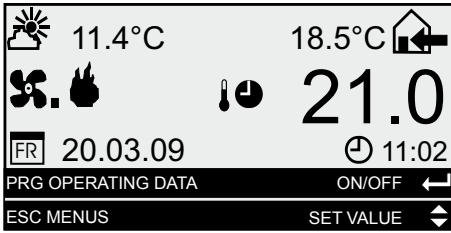
Other...	S-02
Remote control installed?	Yes
ESC BACK	← SELECTION DISPLAY ↕

Select "Yes" with ↑↓ and confirm with Enter ←

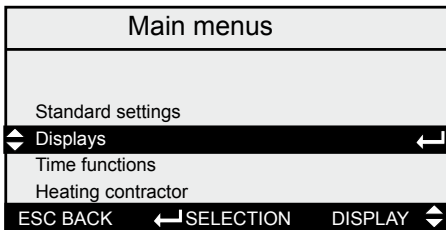
Configuration	W-E2
Restart system (mains OFF/ON)	
System restart	

Switch power supply to controller OFF and ON again
The remote control is enabled

4. When retrofitting a LON / BacNet / ModBus interface, follow the instructions below.



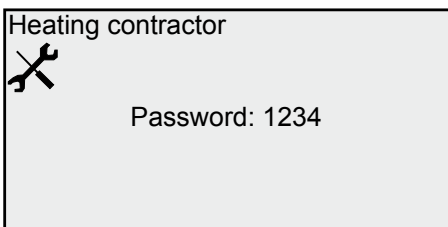
Press **Esc** button



Select Heating contractor with $\uparrow\downarrow$ and confirm with Enter \leftarrow



Continue with \leftarrow



Select 1234 with $\uparrow\downarrow$ and confirm with Enter \leftarrow

Heating contractor - menus	
Alarm management	
Service	
Other	←
Limits	
ESC BACK	← SELECTION DISPLAY

Select Other with ↑↓ and confirm with Enter ↵

Other...	S-04
BMS protocol	
>LON-Works	
Transfer speed	
>4800 (RS485/RS422)	
BMS address:	001
ESC CANCEL	← SAVE VALUE

Confirm with ↵

Other...	S-05
Protocol type:	
BacNet	
ESC CANCEL	← SAVE VALUE

Select required connection with ↑↓

- No proto
- pCO Manager
- LON-Works
- Bac-Net
- ModBus Stave Standard

and confirm with Enter ↵

BMS protocol has been set
Hold down **Esc** button until you jump to the standard screen

The following settings should be made on site for pressure control.

The preset parameter values ensure operation of the system, but have to be matched to customer specifications during commissioning.

Selecting the number of pressure sensors

Standard screen → **Esc** → Select heating contractor → Enter password 1234 → Select pressure/flow rate

Pressure/flow rate ctl		DV1
Diff. pressure sensor		
Number	-2-	
Type	0/10 V	
Range	0/1000 Pa	
ESC BACK ← SELECTION DISPLAY ⇅		

Factory setting	Customer setting
Number 2	
Range 1000	

(If only one sensor is selected, the differential of the extract fan can be entered on the next screen: overpressure, 0 - -50%; underpressure 0 - +50%)

Pressure/flow rate ctl		DV2
Diff. extract fan		
		00.0%
ESC BACK ← SELECTION DISPLAY ⇅		

00.0%	
-------	--

The following settings for flow rate control have to be carried out on site:
Fan type, k-factor

Druck- / Volumenstrom		DV3
Supply fan		
k-Faktor:	0	
Fan type:	1	
Esc ZURÜCK ← AUSWAHL ANZEIGE ⇅		

k-Faktor	0	
Typ	1	

Druck- / Volumenstrom		DV4
Diff. extract fan		
k-Faktor:	0	
Fan type:	1	
Esc ZURÜCK ← AUSWAHL ANZEIGE ⇅		

k-Faktor	0	
Typ	1	

The selection formula for the corresponding fan type and the k-factor are indicated on the fan.

select fan type 1 for formula $V = k \cdot \sqrt{\Delta p}$

select fan type 2 for formular $V = k \cdot \sqrt{\frac{2}{1,2} \cdot \Delta p}$

Enter set values for automatic mode

Standard screen → **Esc** → Select time functions → Set values → Select pressure control, ventilation air → Enter values → Select pressure control, extract air → Enter values

Set values, time prog	
Pressure control, ventilation air	
☰ 00000 Pa	☒ 00000 Pa
☐ 00000 Pa	– 00000 Pa
ESC BACK ← SELECTION DISPLAY ⇅	

	Factory setting	Customer setting
☰	800 Pa	
☒	600 Pa	
☐	300 Pa	
–	100 Pa	

or

	Factory setting	Customer setting
	1300 m³/h	
	1100 m³/h	
	900 m³/h	
	800 m³/h	

Select pressure control, extract air → Enter value

Set values, time prog	
Pressure control, extract air	
☰ 00000 Pa	☒ 00000 Pa
☐ 00000 Pa	– 00000 Pa
ESC BACK ← SELECTION DISPLAYS ⇅	

	Factory setting	Customer setting
☰	800 Pa	
☒	600 Pa	
☐	300 Pa	
–	100 Pa	

or

	Factory setting	Customer setting
	1300 m³/h	
	1100 m³/h	
	900 m³/h	
	800 m³/h	

Hold down **Esc** until you jump to the standard screen

Set value for backup mode, heating/cooling
Setting night ventilation and peak ventilation

Standard screen → **Esc** → Select heating contractor → Enter password 1234 → Select backup mode →
Select heating pressure → Enter value

Backup mode	SB-04
Heating	
Pressure	0000 Pa
ESC BACK	← SELECTION
	DISPLAY ↕

Factory setting	Customer setting
800 Pa	

or

800 m ³ /h	
-----------------------	--

Select cooling pressure → Enter value → **Esc**

Backup mode	SB-09
Cooling	
Pressure	0000 Pa
ESC BACK	← SELECTION
	DISPLAY ↕

800 Pa	
--------	--

or

800 m ³ /h	
-----------------------	--

Select night ventilation → Fan pressure → Enter value → **Esc**

Night ventilation	NL-07
Fan pressure	
	0000 Pa
ESC BACK	← SELECTION
	DISPLAY ↕

800 Pa	
--------	--

or

800 m ³ /h	
-----------------------	--

Select peak ventilation → Fan, ventilation air/extract air → Enter value

Peak ventilation	SL-05
Fan	
Ventilation air	0000 Pa
Extract air	
	0000 Pa
ESC BACK	← SELECTION
	DISPLAY ↕

800 Pa	
--------	--

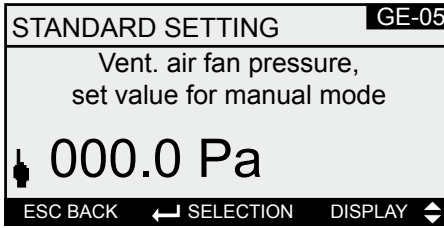
or

800 m ³ /h	
-----------------------	--

Hold down **Esc** until you jump to the standard screen

Entering a set value for manual mode

Standard screen → **Esc** → Standard settings → Select vent. air fan pressure, manual mode → Set value

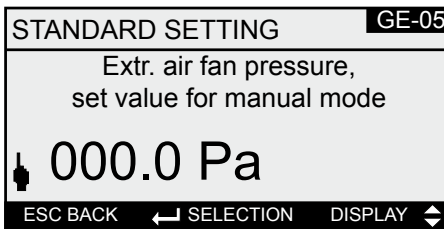


Factory setting	Customer setting
000.0 Pa	

or

0 m³/h	
--------	--

Select extr. air fan pressure, manual mode → Set value

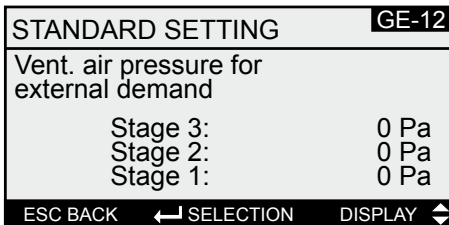


Factory setting	Customer setting
000.0 Pa	

or

0 m³/h	
--------	--

Select vent. air pressure for external demand → Set value

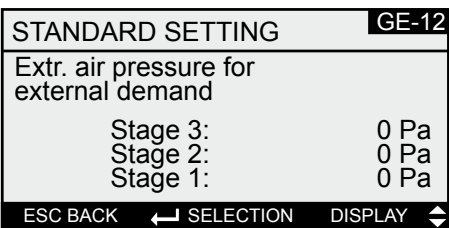


Factory setting	Customer setting
000.0 Pa	
000.0 Pa	
000.0 Pa	

or

0 m³/h	
0 m³/h	
0 m³/h	

Select extr. air pressure for external demand → Set value



Factory setting	Customer setting
000.0 Pa	
000.0 Pa	
000.0 Pa	

or

0 m³/h	
0 m³/h	
0 m³/h	

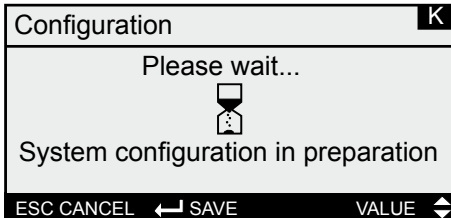
Hold down **Esc** until you jump to the standard screen

5. If commissioning is not carried out by Wolf, configuration must be carried out as follows.

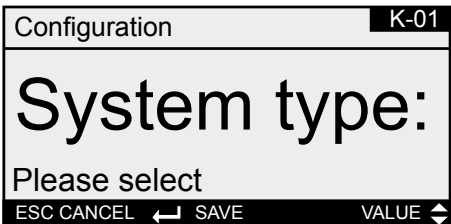
After connecting the controller to the power supply, system configuration is carried out first of all.

You are then prompted to configure the system according to function. The individual screens and the relevant selections should be worked through as follows.

NB The system configuration is preset by Wolf
The following should only be carried out if the controller is replaced

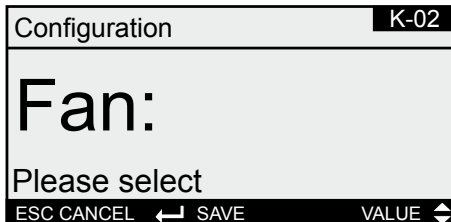


Operation (selection) is carried out with the arrow keys $\uparrow\downarrow$, the selected function is confirmed with Enter \leftarrow , and then the next menu is opened automatically. You can return to a menu with **Esc** to change incorrect settings.



Factory setting	Customer setting
Vent./extr. air system	

The following selection is possible via arrow keys:
Ventilation air system
Vent./extr. air system
Confirm selected system type with Enter



Variable	
----------	--

Select fan speed:

Single stage
Two-stage
Three-stage
Variable

Pressure control
Flow rate control

Selection for pressure / flow rate control

Configuration	K-03
<h1>Heating:</h1>	
Please select	
ESC CANCEL ←	SAVE VALUE ⇅

Select heating mode:

- No heating
- DHW pump bank
- El heater bank stage 1
- El heater bank stage 2
- El heater bank stage 3
- El heater bank stage 4
- El heater bank stage 5
- El heater bank var.
- KGWO

Factory setting	Customer setting
CKL 1300 electric heater bank variable	
CKL 3000 DHW pump bank	

Configuration	K-04
<h1>Cooling:</h1>	
Please select	
ESC CANCEL ←	SAVE VALUE ⇅

Select cooling mode:

- No cooling
- Cold water pump bank
- Direct evap. stage 1
- Direct evap. stage 2

No cooling	
------------	--

Configuration	K-05
<h1>Air dampers</h1>	
Please select	
ESC CANCEL ←	SAVE VALUE ⇅

Select air dampers:

- No air dampers installed
- Mixer air dampers
- Mixer/vent/ex.air dmp
- Outs./dis. air dampers

Outs./dis. air dampers	
------------------------	--

Configuration	K-06
<h1>HR:</h1>	
Please select	
ESC CANCEL ←	SAVE VALUE ⇅

Select heat recovery system:

- No HR available
- PHE
- RHE
- CCS

PHE	
-----	--

Configuration	K-07
Control type:	
Please select	
ESC CANCEL ←	SAVE VALUE ↕

Select temperature control:

- Vent. air control
- Room vent. air cascade
- Ext./vent. air cascade

Factory setting	Customer setting
Vent. air control	

Configuration	K-08
Filter:	
Please select	
ESC CANCEL ←	SAVE VALUE ↕

Select filters:

- No filter
- Outside air filter
- Ventilation air filter
- Extract air filter
- Outs./vent. air filter
- Vent./extr. air filter
- Outside/extr. air filter
- Outs./vent/ex. air filter

Vent./extr. air filter	
------------------------	--

Configuration	K-09
Number FD:	
Please select	
ESC CANCEL ←	SAVE VALUE ↕

Select fire dampers:

- No FD available
- 1 fire damper

1 fire damper	
---------------	--

Configuration	K-10
Ext. demand:	
Please select	
ESC CANCEL ← SAVE	VALUE ⇅

Factory setting	Customer setting
None available	

Select external systems, demand:

- None available
- Remote start/stop
- Remote step control
- Remote On/Off + stages

Configuration	K-11
Remote control	
Please select	
ESC CANCEL ← SAVE	VALUE ⇅

None available	
----------------	--

Select remote control:

- None available
- Set value transducer
- Remote control

Configuration	K-12
BMS:	
Please select	
ESC CANCEL ← SAVE	VALUE ⇅

No BMS available	
------------------	--

Select building management system:

- No BMS available
- pCO Manager
- BacNet
- LON Works
- Nadbus

Configuration	K-E0
Pre-configuration completed	
← Continue with Enter	

The selected configuration is then displayed in the overview
Changes cannot be made

Overview of the preset configuration

Configuration	K-E1
Vent./ex. air syst. w/ variable speed fan without heater bank No cooling bank Outs./dis. air dampers	
← Continue with Enter	

Continue with ←

Configuration	K-E2
Heat recovery PHE Vent. air control Outside/extr. air filter 1 fire damper No ext. demand	
← Continue with Enter	

Continue with ←

Configuration	K-E3
Remote control No BMS available	
← Continue with Enter	

Continue with ←

Configuration	K-E4
Restart system (mains OFF/ON)	
← Continue with Enter	

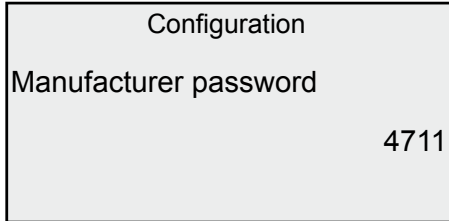
Configuration complete
Switch control unit OFF and ON again
The configuration is saved

6. Restoring factory settings

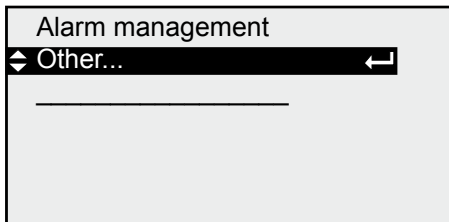
Delete all settings from the standard menu.

(Delete preset configuration)

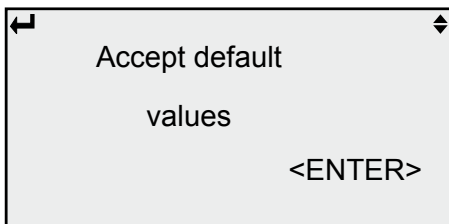
Please press **Prg** and **Esc** for approx. 2 sec and enter manufacturer password 4711. Confirm with **Esc**.



Select Other with **↑↓** and confirm with Enter **↵**



Select Accept default values **↑↓** and confirm with Enter **↵**



After approx. 30 sec, the display jumps automatically to the system configuration level

