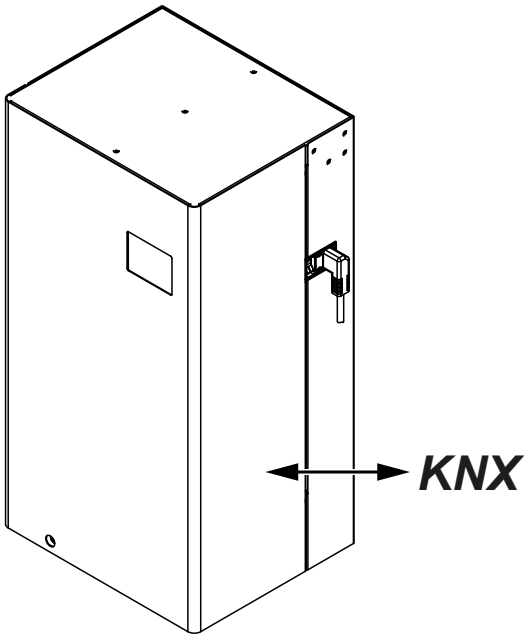
2597793-0 EN 1908

CONTROLS SERIES



READ AND SAVE THESE INSTRUCTIONS

KNX GATEWAY

Addendum manual for the configuration
of the optional Condair MN KNX Gateway

Humidification and Evaporative Cooling

condair

Thank you for choosing Condair

Installation date (MM/DD/YYYY):
Commissioning date (MM/DD/YYYY):
Site:
Model:
Serial number:

Contents

1 Introduction

1.1 Notes on this addendum manual

Subject of this addendum manual is the electrical installation and the configuration of the optional Condair MN KNX gateway.

This addendum manual is intended for use by engineers and properly trained technical personnel. Please read this manual thoroughly before configuring the optional Condair MN KNX gateway.

If you have questions after reading this documentation, please contact your Condair representative. They will be glad to assist you.

Symbols used in this manual

CAUTION!

The catchword "CAUTION" used in conjunction with the caution symbol in the circle designates notes in this addendum manual that, if neglected, may cause **damage and/or malfunction of the unit or other material assets**.

WARNING!

The catchword "WARNING" used in conjunction with the general caution symbol designates safety and danger notes in this addendum manual that, if neglected, may cause to **injury to persons**.

DANGER!

The catchword "DANGER" used in conjunction with the general caution symbol designates safety and danger notes in this addendum manual that, if neglected, may lead to **severe injury or even death of persons**.

Safekeeping

Please safeguard this addendum manual in a safe place, where they can be immediately accessed. If the equipment changes hands, the documentation must be passed on to the new operator.

If the documentation gets mislaid, please contact your Condair representative.

Language versions

This operation manual is available in various languages. Please contact your Condair representative for information.

2 For your safety

General

Every person who has been assigned to electrically install and configure the optional KNX gateway of the Condair MN must have read and understood this addendum manual.
Knowing and understanding the contents of this addendum manual is a basic requirement for protecting the personnel against any kind of danger, to prevent faulty installation, operation and configuration, and to operate the Condair MN safely and correctly.

Qualification of personnel

All work described in this addendum manual **may only be carried out by persons who are well trained and adequately qualified**.
For safety and warranty reasons any action beyond the scope of this manual must be carried out only by qualified personnel authorised by Condair Group AG.

It is assumed that all persons working on the optional KNX gateway and on the Condair MN are familiar and comply with the appropriate regulations on work safety and the prevention of accidents.

The optional KNX gateway and the Condair MN may not be used by persons (including children) with reduced physical, sensory or mental abilities or persons with lacking experience and/or knowledge.
Children must be supervised to make sure that they do not play with the optional KNX gateway and the Condair MN.

Intended use

The optional KNX gateway is intended exclusively for controlling and querying of operating values of the control software of the Condair MN according to the instructions in this manual. Any other type of application, without the written consent of Condair Group AG, is considered as not conforming with the intended purpose and may lead to the Condair MN becoming dangerous and will void any warranty.
Operation of the equipment in the intended manner requires **that all the information contained in this addendum manual, in the additional manuals to the Condair MN as well as in the separate documentations of the components used together with the Condair MN are observed (in particular all safety instructions)**.

Danger that may arise from the Condair MN:

DANGER!
Risk of electrocution

The Condair MN's central unit runs on mains power. If the central unit is open, live parts may be touched. Touching live parts may cause severe injury or death.

For this reason: Before starting work on the central unit, disconnect it from the mains power supply (remove plug from socket).

Warning!
UV-C radiation

A UV lamp is built into the Condair MN's central unit. In principle this should pose no risks, as it is installed in a radiation-proof housing. If the UV lamp is operated outside of this housing, harmful UV-C radiation may be released. This may cause damage to the eyes and skin.

For this reason: the UV lamp must never be operated outside of the protective housing. The central unit must be switched off and disconnected from the mains power supply (remove the plug from the socket) before the central unit is opened.

Preventing unsafe operation

If it is suspected that **safe operation of the optional KNX gateway and the Condair MN is no longer possible**, the Condair MN should immediately **be shut down and secured against accidental power-up**. This can be the case under the following circumstances:

– if the optional KNX gateway and/or the Condair MN is/are damaged
– if the electrical installations are damaged
– if the optional KNX gateway and/or the Condair MN is/are no longer operating correctly
– if connections and/or piping are not sealed

All persons working with the optional KNX gateway and the Condair MN must report any alterations to the devices that may affect safety to the owner without delay.

Prohibited modifications to the unit

No modifications must be undertaken on the optional KNX gateway and the Condair MN without the express written consent of Condair.

3 KNX Gateway

3.1 General information

The KNX Gateway BAOS 870 from Weinzierl is used to integrate the Condair MN into a KNX installation. The gateway will be installed by a service engineer from Condair. The KNX Integrator will thus find an already installed gateway.

Fig. 1: KNX gateway installed

3.2 Connecting the KNX Gateway to a KNX network

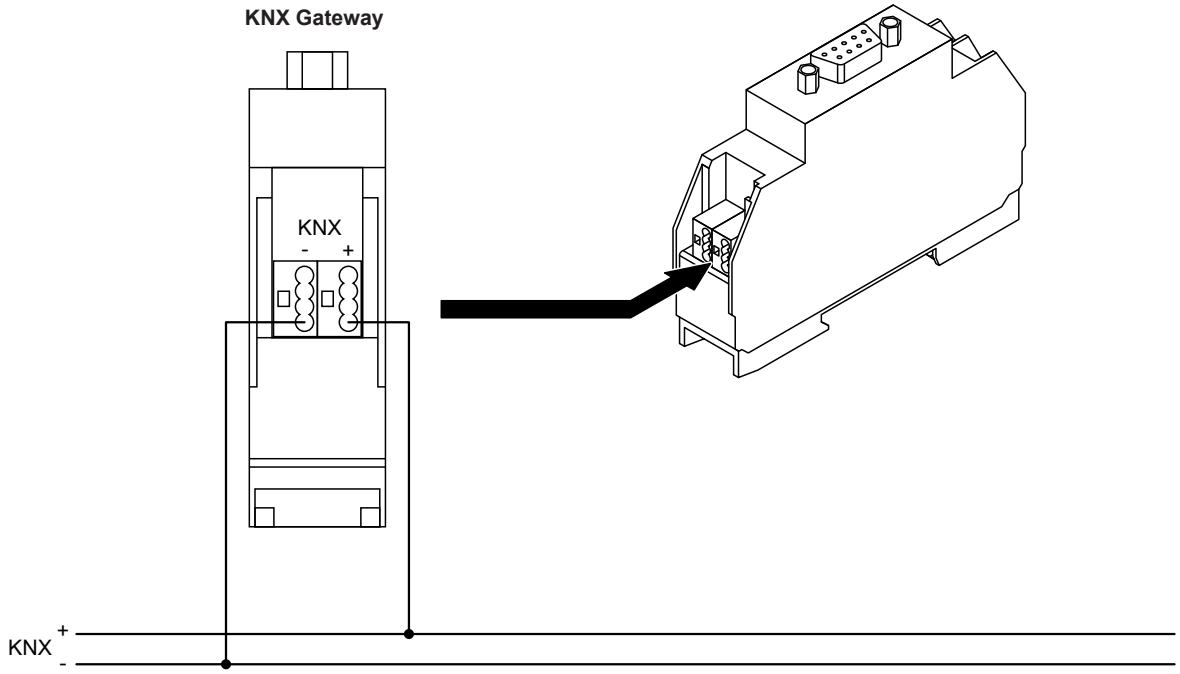


Fig. 2: Connection of the KNX Gateway to a KNX network

The KNX Gateway is connected to the KNX network according to the diagram above.

3.3 Download the "MN Option KNX.KNXPROJ" project file

The settings on the gateway are not officially certified for the use of the Condair MN, for this reason a corresponding project file ("MN Option KNX.KNXPROJ") must be downloaded from the Condair HumiLife homepage (condairhumilife.com > Service > Download).
Note: Please check the actuality of the project in the download area of the Condair HumiLife homepage (condairhumilife.com) before each commissioning.

3.4 Importing the project file "MN Option KNX.KNXPROJ" into the ETS5 software

1. Start the ETS5 software on your labtop connected to the KNX network.
2. Open the project file "MN Option KNX.KNXPROJ" which you have previously downloaded from the Condair HumiLife website.
3. After you have opened the project file "MN Option KNX.KNXPROJ" with the ETS5 software, the device "KNX BAOS 82x 87x" appears. This device forms the interface between the Condair MN and the existing KNX home automation system (see *Fig. 3*).

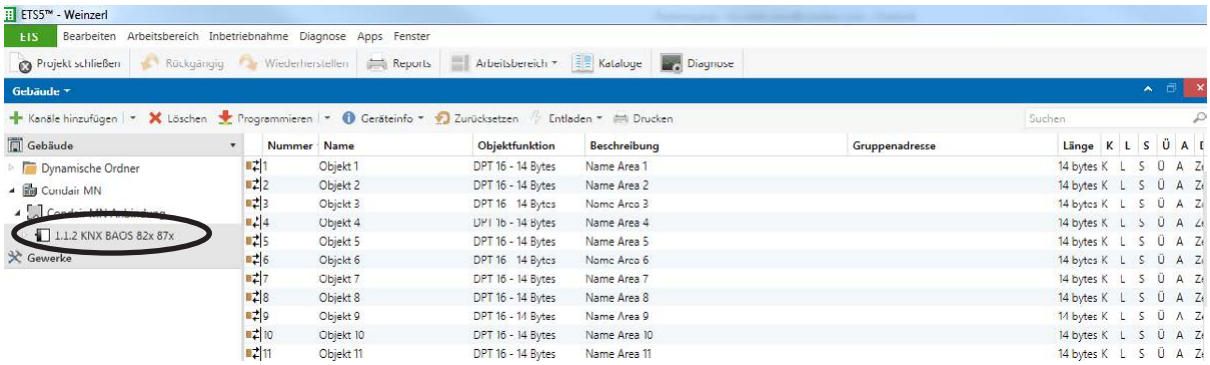


Fig. 3: Download the "MN Option KNX.KNXPROJ" project file

4. Drag or copy the interface from the MN Option KNX project into your existing project (see *Fig. 4*).

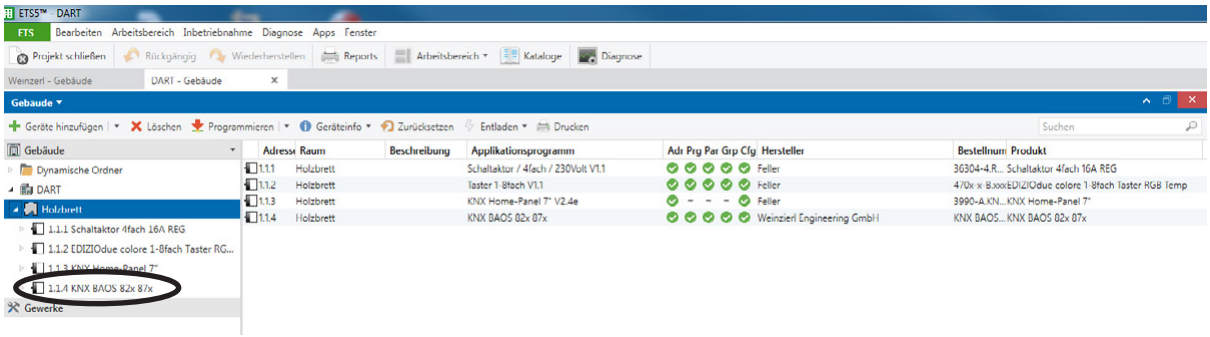


Fig. 4: Example of an existing project

5. Now you can create the group addresses according to the rooms or zones and link them with other KNX components.
   Note: The group addresses can be freely selected by the integrator, as certain addresses may already be assigned to existing installations.

4 Communication table

4.1 Data points

The following table shows which object functions can be linked with the KNX home automation via the group addresses of the "MN option KNX.KNXPROJ":

Data point	Object function	Description	Range	Type
1	Name Area 1	Name of zone 1		DPT 16
2	Name Area 2	Name of zone 2		DPT 16
…	Name Area [n]	Name of zone [n]		DPT 16
20	Name Area 20	Name of zone 20		DPT 16
32	System Name String	Name of the MN Condair		DPT 16
33	Humidity Area 1	Actual humidity value zone 1	0 - 100%	DPT 09
34	Humidity Area 2	Actual humidity value zone 2	0 - 100%	DPT 09
…	Humidity Area [n]	Actual humidity value zone [n]	0 - 100%	DPT 09
52	Humidity Area 20	Actual humidity value zone 20	0 - 100%	DPT 09
53	Temperature Area 1	Actual temperature value zone 1	-100 - +200°C	DPT 09
54	Temperature Area 2	Actual temperature value zone 2	-100 - +200°C	DPT 09
…	Temperature Area [n]	Actual temperature value zone [n]	-100 - +200°C	DPT 09
72	Temperature Area 20	Actual temperature value zone 20	-100 - +200°C	DPT 09
73	Setpoint Off Area 1	Humidification level 0 "Humidification Off" of zone 1	0 = inactive 1 = active	DPT 01
74	Setpoint Off Area 2	Humidification level 0 "Humidification Off" of zone 2	0 = inactive 1 = active	DPT 01
…	Setpoint Off Area [n]	Humidification level 0 "Humidification Off" of zone [n]	0 = inactive 1 = active	DPT 01
92	Setpoint Off Area 20	Humidification level 0 "Humidification Off" of zone 20	0 = inactive 1 = active	DPT 01
93	Setpoint Low Area 1	Humidification level 1 "Humidification Low" of zone 1	0 = inactive 1 = active	DPT 01
94	Setpoint Low Area 2	Humidification level 1 "Humidification Low" of zone 2	0 = inactive 1 = active	DPT 01
…	Setpoint Low Area [n]	Humidification level 1 "Humidification Low" of zone [n]	0 = inactive 1 = active	DPT 01
112	Setpoint Low Area 20	Humidification level 1 "Humidification Low" of zone 20	0 = inactive 1 = active	DPT 01
113	Setpoint Norm Area 1	Humidification level 2 "Humidification Mid" of zone 1	0 = inactive 1 = active	DPT 01
114	Setpoint Norm Area 2	Humidification level 2 "Humidification Mid" of zone 2	0 = inactive 1 = active	DPT 01
…	Setpoint Norm Area [n]	Humidification level 2 "Humidification Mid" of zone [n]	0 = inactive 1 = active	DPT 01
132	Setpoint Norm Area 20	Humidification level 2 "Humidification Mid" of zone 20	0 = inactive 1 = active	DPT 01
133	Setpoint High Area 1	Humidification level 3 "Humidification High" of zone 1	0 = inactive 1 = active	DPT 01
134	Setpoint High Area 2	Humidification level 3 "Humidification High" of zone 2	0 = inactive 1 = active	DPT 01

Data point	Object function	Description	Range	Type
…	Setpoint High Area [n]	Humidification level 3 "Humidification High" of zone [n]	0 = inactive 1 = active	DPT 01
152	Setpoint High Area 20	Humidification level 3 "Humidification High" of zone 20	0 = inactive 1 = active	DPT 01
153	Auto Modus Area 1 [1)]	Humidification level 4 "Auto mode" of zone 1 (Control home automation)	0 = inactive 1 = active	DPT 01
154	Auto Modus Area 2 [1)]	Humidification level 4 "Auto mode" of zone 2 (Control home automation)	0 = inactive 1 = active	DPT 01
…	Auto Modus Area [n] [1)]	Humidification level 4 "Auto mode" of zone [n] (Control home automation)	0 = inactive 1 = active	DPT 01
172	Auto Modus Area 20 [1)]	Humidification level 4 "Auto mode" of zone 20 (Control home automation)	0 = inactive 1 = active	DPT 01
173	Set-point Area 1	Humidification level of zone 1	0 = Off 1 = Humidification Low 2 = Humidification Mid 3 = Humidification High 4 = Auto mode	DPT 05
174	Set-point Area 2	Humidification level of zone 2	0 = Off 1 = Humidification Low 2 = Humidification Mid 3 = Humidification High 4 = Auto mode	DPT 05
…	Set-point Area [n]	Humidification level of zone [n]	0 = Off 1 = Humidification Low 2 = Humidification Mid 3 = Humidification High 4 = Auto mode	DPT 05
192	Set-point Area 20	Humidification level of zone 20	0 = Off 1 = Humidification Low 2 = Humidification Mid 3 = Humidification High 4 = Auto mode	DPT 05
193	External Value Area 1	Setpoint setting by home automation in auto mode (humidification level 4) of the zone 1	20 - 80%	DPT 09
194	External Value Area 2	Setpoint setting by home automation in auto mode (humidification level 4) of the zone 2	20 - 80%	DPT 09
…	External Value Area [n]	Setpoint setting by home automation in auto mode (humidification level 4) of the zone [n]	20 - 80%	DPT 09
212	External Value Area 20	Setpoint setting by home automation in auto mode (humidification level 4) of the zone 20	20 - 80%	DPT 09
245	System Name Number	Serial number of the Condair MN		DPT 12
246	Number of Areas	Number of existing zones	1 - 20	DPT 05
247	Filter Change Necessary	Message "Filter Change Necessary", the filter of the device is exhausted and must be replaced	0 = OK 1 = Replacement required	DPT 01
248	Service Necessary	Collective message "Service" The unit needs servicing, contact customer service	0 = OK 1 = Service required	DPT 01

Data point	Object function	Description	Range	Type
249	Cloud Connection Error	No network connection available	0 = OK 1 = Fault	DPT 01
250	System Error	Collective message "Fault", contact customer service	0 = OK 1 = Fault	DPT 01

[1)] The Auto Mode can only be selected via the KNX interface. If a zone is in Auto Mode, no other humidification level can be selected in the display of the Condair MN. Resetting the auto mode (and thus activating the display input) is only possible via the KNX interface by selecting a different humidification level (0 - 3).

4.2 Parameter

Adjustable interval times (parameters 1 to 6) for the corresponding object functions:

Parameter	Name	Description	Standard value	Range
1	Set-point Interval	Transmission interval of the humidification levels and humidity setpoints (Data points X-Y)	1	0 = Off (Standard) 1 = 10s 2 = 1min 3 = 5min 4 = 30min 5 = 2h 6 = 8h 7 = 24h >7 = Off
2	Humidity Interval	Transmission interval of the actual humidity values (Data points X-Y)	2	
3	Temperature Interval	Transmission interval of the actual temperature values (Data points X-Y)	3	
4	Area Name Interval	Transmission interval of the zone names (Data points X-Y)	2	
5	System Name Interval	Transmission interval of the system names (Data points X-Y)	1	
6	System State Interval	Transmission interval of the system status (Data points X-Y)	1	

Notes

Notes

CONSULTING, SALES AND SERVICE:

CH94/0002.00

Condair Group AG
Gwattstrasse 17, 8808 Pfäffikon SZ, Switzerland
Phone +41 55 416 61 11, Fax +41 55 416 62 62
info@condair.com, www.condair.com

condair