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ASSEMBLY AND USER INSTRUCTIONS EN

Control panel

CI 70

Our products are subject to continuous development and we therefore reserve the right to make changes. We also disclaim liability for any printing errors that may occur.



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1. Scope

- The CI 70 works together with all ventilation units in the Nordic series
- The CI 70 operates control functions, such as fan and temperature control
- The CI 70 communicates with 2-wire interface to the controller through KNX PL-Link

2. Mechanical design







1	Gasket for panel mounting
2	Base plate
	$\boldsymbol{\cdot}$ with screw holes for all common conduit oxes
	\cdot with gaining channels for wiring from center, up, or bottom
3	Operator unit



The subsections include important information that is either decisive for the sale or is essential for engineering.



National safety regulations Failure to comply with national safety regulations may result in personal injury and property

damage • Observe national provisions and comply with the appropriate safety regulations.



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2.1. MOUNTING



- The devices are suitable for wall mounting and panel mounting.
- Recommended height: 1.50m above the floor.
- Do not mount the devices in recesses, shelves, behind curtains or doors, or above or near heat sources.
- Avoid direct solar radiation and drafts.
- Seal the conduit box or the installation tube if any, as air currents can affect sensor readings.
- Adhere to designated ambient conditions.

The cable to the control panel is laid between the ventilation unit and the control panel. The control panel is designed for concealed installation

above the wallbox.

The included cable is 12 meters. If you need a longer signal cable, order our 24 m cable. Art.no. 118258.



The cable to the CI 70 control panel must be at least 30 cm from the 230 V cable (including dimmers, thermostats, etc.). Power cables must cross the CI 70 signal cable at a right angle. For concealed installation, the cable is laid in 16 mm cable tubes.

When you have installed the signal cable, pull out all cable at the Cl 70 panel to avoid surplus signal cable at the ventilation unit. A roll of cable at the unit may cause disruption. Cut the signal cable to the right length before the next step.



CI 70 control panel must be connected to the ventilation unit before powered ON. After power ON it takes approx. 3 min before the control panel is in operation.

















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3.1. STATUS ICON DESCRIPTION:

Position 1

\bigcirc	AUTO MODE
K	SERVICE – ACKNOWLEDEGED
ß	SERVICE – NOT ACKNOWLEDGED
r	SERVICE REQUEST
Ň	NORMAL - ACKNOWLEDGED BUT NOT RESETED
%	ALARM – ACKNOWLEDGED
\bigcap_{\bullet}	ALARM – NOT ACKNOWLEDGED
Ļ	ALARM

Position 2



HOME MODE

Position 3

HIGH MODE

Status icons max 3 icons at one time



Only as examplary picture. Not a spec reference.

4. Sleep page & home page description



4.1. LAYER CONSEPT

Screens/views are prioritized according to use cases. When screen with higher prio is called/activated it will be the dominant one.



5. Settings

5.1. GENERAL DESCRIPTION

Each page explained later in detail.



5.2. ADJUST TIME DATE & SCHEDULER



Adjust time:

Press the arrows beside the clock: <- to reduce and -> to increase the time. Hold down to move faster.

Adjust the date:

Press the arrows beside the date: <- to reduce and -> to increase the date and year. Hold down to move faster.

Adjusting MAN/AUTO:

Via the FlexitGO app, you can set the unit to operate in calendar mode, i.e. it changes speed according to a preset timetable. You can select whether the unit will operate in calendar mode via the panel. This is done by selecting HOME mode and then going to General mode (see 5.1). Use the arrows to switch between: MAN = Calendar off

AUTO = Calendar active if it is configured in the app.



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5.3. FAN SPEEDS



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NB. The fan speeds are factory-set to: Away 50%, Home 75% and High 100%. High must always be set higher than Home, which must be set higher than Away. For example, if you want to set Home lower than 50%, you must first reduce Away so it is always lower than Home. The same applies between Home and High.



Home: This is a constant mode and is Intended for normal use when the building is occupied.



Away: This is a constant mode and is intended for use when the building is unoccupied for longer periods. You can also set a delayed start, which can be useful if you just got out of the shower before you leave the house.

High: This can be both a constant mode and a temporary mode with a set duration. It is intended for use when a higher ventilation demand is temporarily required.



Fireplace: This is only available as a temporary mode with a set duration. It is intended for temporary use together with a fireplace. It creates an overpressure in the building to facilitate smoke to go up the chimney, which prevents smoke to enter the building.



Cooker hood: This mode can only be activated using a wireless or cabled accessory, which is mounted in your cooker hood. It activates when you use your cooker hood.

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5.3.1. Fan speed setting page

Press of button 5 will change the views in loop towards right.



Press of button 1 will change the views in reverse order - loop towards left.



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5.4. SUPPLY AIR TEMPERATURES



5.4.1. Home page – mode selection

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Time delay setting when switching to AWAY mode with button 1.

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5.4.2. Home page – home/away selection



5.4.3. Home page – in scheduler mode



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5.4.4. Timer functions





returns to HOME PAGE after prolongation time is elapsed

returns to HOME PAGE if function is canceled

5.5. INFORMATION

Activation of cooker hood function via Digital input or wireless accesorie.



5.6. ALARM

In case of alarm, the display will start to blink, and the appearance of the information will depend on alarm class, according to the pictures below.



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5.6.1. Alarm mode



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5.6.2. Filter alarm

When a filter alarm is active, a tool key is displayed and the alarm code 1020 is displayed. After the filters in the unit have been replaced, follow the procedure, described in two steps below, to reset the filter timer (section 5.6.3) and the alarm. (section 5.6.4)

5.6.3. Reset filter timer

This function is used to reset the filter timer. The function can be used to reset the filter timer before reseting the filter alarm or it can also be used to reset the filter timer if the filter is replaced before the filter alarm has appeared.

NB! In case you can't locate parameter P41 on your product, this functionality is not available. Please go to the next step (section 5.6.4) in order to finalize the procedure.



5.6.4. Reset filter alarm

This function is used to reset the filter alarm.



Hold down both buttons until the next page is shown.



Then press the right button to select the active alarm.



Confirm/reset by pressing the button.



When the alarm has been confirmed, the panel automatically returns to the start page.

5.6.5. Filter interval

The unit has a default setting for the filter alarm interval of 6 months. If you want to adjust this, you need to connect to the unit via the FlexitGO app.

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5.6.6. Acknowledge and reset A-alarm

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In case of critical A-alarms, application operation is locked until alarm is acknowledged and reset.



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5.6.7. Acknowledge B-alarm

alarm has to be acknowledged.

Application is still operational (as much as possible),



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5.6.8. Alarm codes

Error code	Error source
10001999	Hardware related errors
20002999	Application related errors
30003999	Communication errors

5.6.9. Alarm codes – Hardware related errors

Code #	A/B-Alarm	Name/Text
10001999	Code range	e for - Hardware
1001	А	B1 - Supply air temperature sensor fault
1002	В	B6 - Exhaust air temperature sensor fault
1003	В	B3 - Extract air temperature sensor fault
1004	А	B4 - Outside air temperature sensor fault
1005		B5 - Frost protection temp. Heating coil sensor fault
1006	В	H1 - 0-10 V Humidity sensor fault
1007	В	M3 - Rotary heat exchanger motor stuck
1008	В	M3 - Rotary heat exchanger belt broken
1009	А	M9 - Fire damper fault
1010	А	TM1 - Supply air fan fault
1011	А	TM2 - Exhaust air fan fault
1012	В	CI-70 - Room temperature sensor on CI-70 fault
1020	В	Time to replace air filter
1034	В	P1 - Differential pressure supply air sensor fault
1035	В	P2 - Differential pressure exhaust air sensor fault
1039	В	M3 - Rotary heat exchanger, motor shorted
1040	В	Low battery wireless device

5.6.10. Alarm codes – Application related errors

20002999	Code range for - Application & Configuration		
2001	А	X8 - Emergency off	
2002	А	X8 - Smoke detector	
2003	А	X8 - CO detector	
2004	А	Fire alarm - B1 or B3 over max temperature	
2005	В	Supply air temperature outside operating limits	
2007		B5 - Heating coil frost alarm	
2010	А	F10 - electric heater supply air over temperature detection	
2024	В	EB1 - Electric Heating, unable to control	
2025	В	M3 - Rotary heat exchanger, unable to control	

5.6.11. Alarm codes – Communication errors

30003999	Code range for - Communication		
3004	В	QBM - communication fault, pressure sensor	
3006	В	CI-75 - Communication fault, wireless adapter	
3007		Communication fault, wireless device	

5.7. EXPERT MODE

5.7.1. Read parameter mode



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5.7.2. Parameter list

Parameter	Description	Unit	Actual value
P00	Temperature sensor B4	°C	
P01	Temperature sensor B8	°C	
P02	Temperature sensor B5	°C	
P03	Temperature sensor B1	°C	
P04	Temperature sensor B3	°C	
P05	Temperature sensor B6	°C	
P06	Humidity sensor B6	%	
P07	Supply fan M1	%	
P08	Tacho TM1	Rpm	
P09	Flow sensor P1	m³/h or l/s	
P10	Pressure sensor modnus supply air	Pa	
P11	Supply fan M2	%	
P12	Tacho TM2	Rpm	
P13	Flow sensor	m³/h or l/s	
P14	Pressure sensor modbus extract air	Pa	
P15	Rotr motor RMC M3	%	
P16	Damper M5	open/closed	
P17	Bypass M4	open/closed	
P18	Electrical heater/Pump EV1	%	
P19	Thermostat BT	open/closed	
P20	Waterbased heater valve M10	%	
P21	Cooling valve CO	%	
P22	Cooling pump CO1	on/off	
P23	Fire damper M9	open/closed	
P24	Feedback fire damper MI4	on/off	
P25	Fire/smoke detector	on/off	
P26	Damper M6	open/closed	
P27	Input HIGH	on/off	
P28	Input HOME	on/off	
P29	Input AWAY	on/off	
P30	Input STOP	on/off	
P31	Input COOKER HOOD	on/off	
P32	Input FIRE PLACE	on/off	
P33	Input HOME/AWAY	on/off	
P34	Input Air quality	ppm	
P35	Input Humidity	%RH	
P36	Input Radon	Bq/m³	
P37	Backlight level	-	
P38	CI-1 temperature value shift	К	
P39	Unit selection: Celcius – Fahrenheit	-	
P40	Unit selection: m ³ /h or l/s	-	
P41	Filter timer	-	

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6. Technical data

6.1. MECHANICAL DIMENSIONS



6.2. SPECIFICATION

General data	
Color	Signal white (RAL9003)
Weight	150g

Power	supp	ly
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Operating voltage	KNX / PL-Link DC 2130 V
Max power consumption	710 mA

Type of port between room automation station and room operator unit	KNX / PL-Link
Baud rate	9.6 kbps
Protocol	KNX PL-LINK
Standard KNX plug	Wire diameter 0.8 mm, max. 1.0 mm
Cable type	2-core twisted pair, stranded, solid
Single cable length (from room automation station to room operator unit)	<1000 m
Section	0,51,5 mm²
Bus line polarity	PL+,PL-
Bus terminating resister	not required

Sensor data		
Temperature Sensor	Measuring element	NTC resistance sensor
	Measuring range	050 °C
	Measuring accuracy (530°C)	±0.8 °C
	Measuring accuracy (25°C)	±0.5 °C

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Ambient conditions and	protection classification
Housing Protoction	020

IP30



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Protection standard as per EN 60529	IP33 for surface part	
Insulation protection class	Class III	
Climatic ambient conditions:		
Normal operation	Environmental Conditions: Class 3K5	
	Temperature 050 °C (0 122 °F)	
	Air humidity <85% rh.	
Transport	Environmental Conditions: Class 2K3	
	Temperature -2570 °C (-4 158 °F)	
	Air humidity <95% rh.	
Mechanical ambient conditions:		
Normal operation	Class 3M2	
Transport	Class 2M2	

Standards, directives and approvals	
EU conformity (CE)	
RCM conformity to EMC emission standard	
CSA Compliance	CSA C22.2M205
IC Compliance	CAN ICE-3(B)/NMB-3(B)
UL Compliance	UL916, UL873/UL60730
FCC Compliance	Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) the device may not cause harmful interference, and 2) the device must accept any interference received, including interference that may cause undesired operation.

6.3. MAINTENANCE

The device can be cleaned with off-the shelf, solvent-free cleaning agents.

Do not use mechanical aids (rough sponge or similar materials) – only a soft, damp cloth.

6.4. DISPOSAL



The device is considered an electronics device for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic garbage.

- Dispose of the device through
- channels provided for this purpose.

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• Comply with all local and currently applicable laws and regulations.

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