

Instructions for installing the MIRU Control equipment MIRUVENT.

1. General

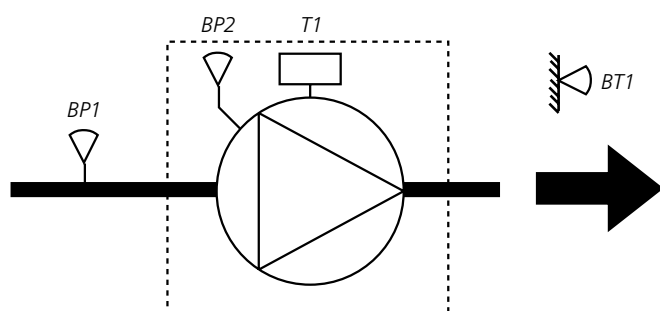
The MIRUVENT is an extract air fan, designed for use in most extract air systems in comfort ventilation systems, in which the air has a low content of impurities.

MIRU Control equipment can also be supplied for the power roof ventilator. MIRU Control can control a number of parameters.

Up to ten power roof ventilators with MIRU Control equipment can be connected to one GOLD air handling unit by means of bus communication (GOLD version D requires program version 6.03 or better).

MIRU Control is designed for installation in connection with the power roof ventilator.

How the Unit Operates



- T1 Motor control system for variable speed control of the fan motor.
- BP1 Pressure sensor for keeping the pressure constant in the extract air duct.
- BP2 Pressure sensor for keeping the flow constant in the extract air duct/reading the current airflow.
- BT1 External temperature sensor for measuring the outdoor air temperature or the room temperature. Used for offsetting the pressure or flow setpoint.

2. Installation

Install the control box at an appropriate place where it will not be exposed to direct sunlight. Use the four screws supplied for installation.



3. Technical data

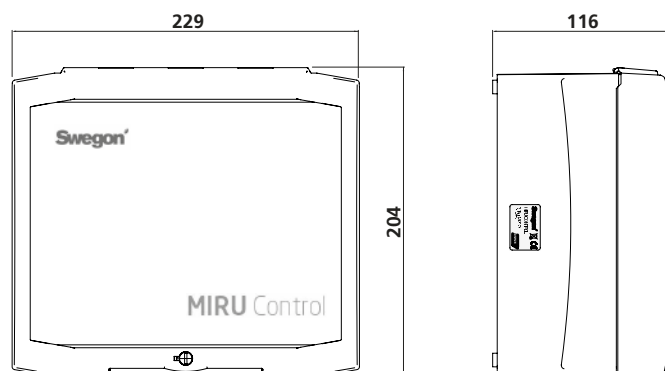
CE-approved to

Enclosure class IP54

Ambient temperature:
during operation -20 °C – +40 °C
during storage -40 °C – +80 °C

Weight 1 kg

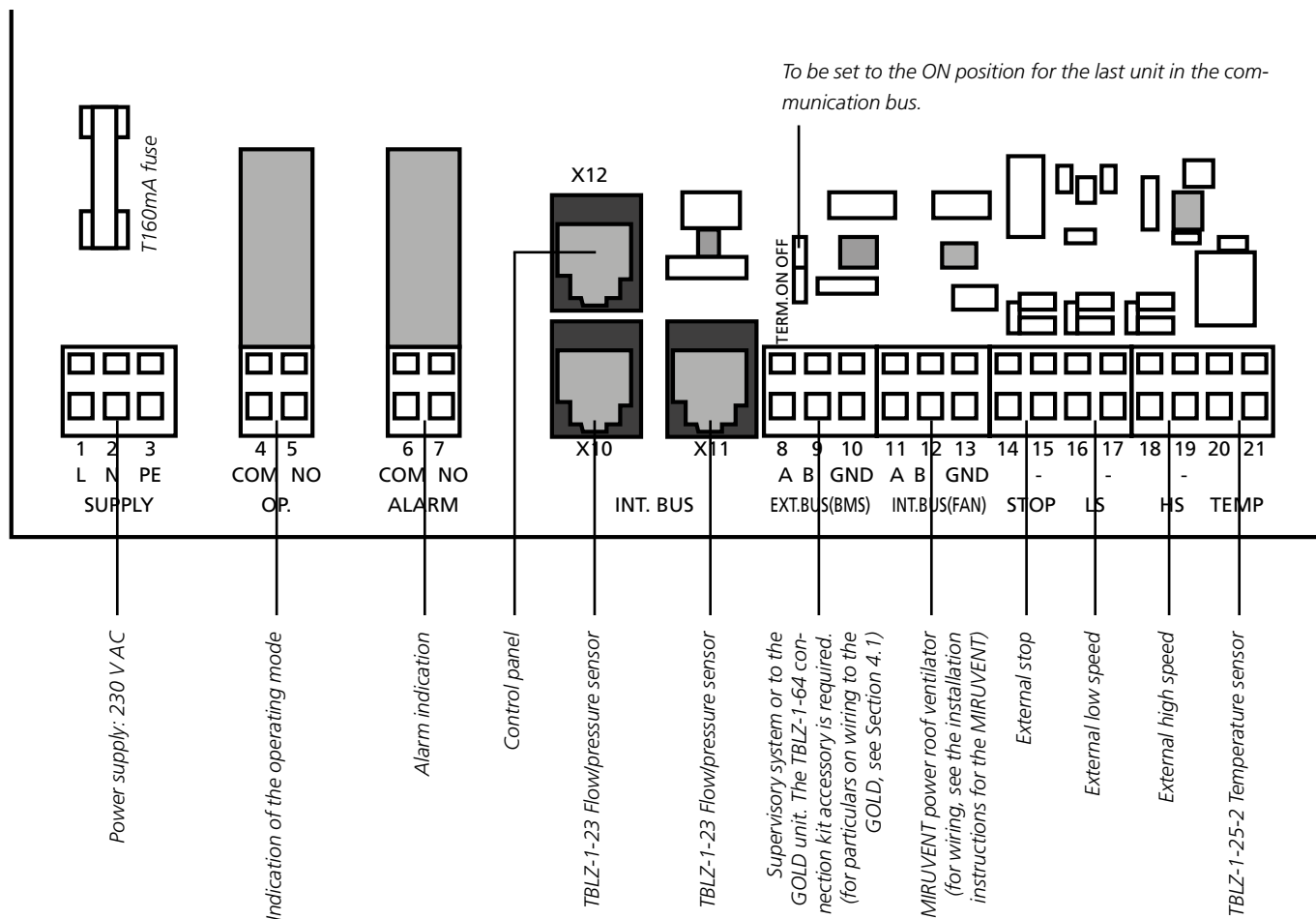
Dimensions



The document was originally written in Swedish.

4. Electrical connections

The electrical connections should be wired by a qualified electrician in accordance with local electrical safety regulations.

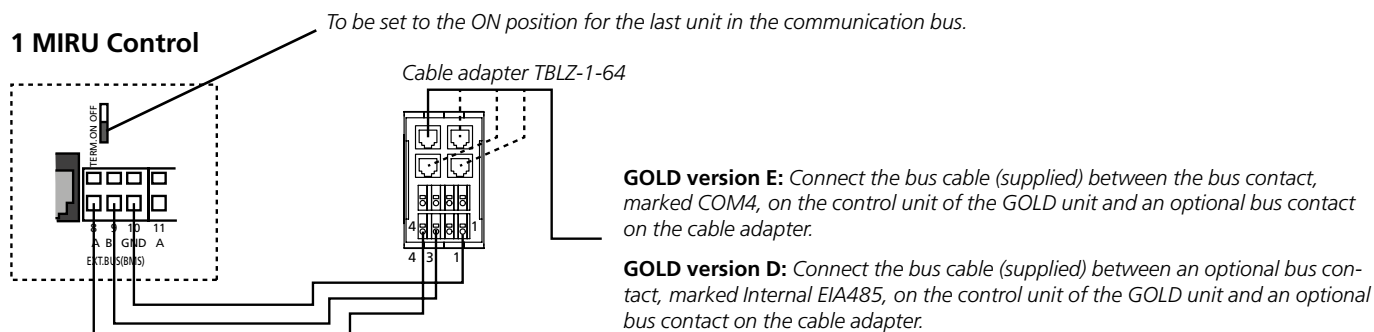


Wiring terminal	Operation	Remarks
1,2,3	Supply voltage	230 V AC -10/+15%, 50/60 Hz
4,5	Indication of the operating mode	Independent normally-open contact, 250 VAC, 8A/AC1, 2A/AC3 closes when the fan is operating
6,7	Alarm indication	Independent normally-open contact, 250 VAC, 8A/AC1, 2A/AC3 closes when an alarm has tripped
8,9,10	Supervisory system or GOLD	EIA-485, Modbus RTU, extern BUS
11,12,13	MIRUVENT power roof ventilator	EIA-485, Modbus RTU, Internal BUS
14,15	External stop	Digital input (extra-low voltage type), external contact function. Stops by opening the circuit. Cuts the connection, stops the power roof ventilator.
16,17	External low speed	Digital input (extra-low voltage type), external contact function. Over-modulates from stop to low speed when the circuit is closed.
18,19	External high speed	Digital input (extra-low voltage type), external contact function. Over-modulates from stop or low speed to high speed when the circuit is closed.
20,21	TBLZ-1-25-2 Temperature sensor	Analogue input for PT1000 resistive sensor
X10	TBLZ-1-23 Pressure sensor	EIA-485, quick-fit connector
X11	TBLZ-1-23 Pressure sensor	EIA-485, quick-fit connector
X12	Control panel	EIA-485, internally connected

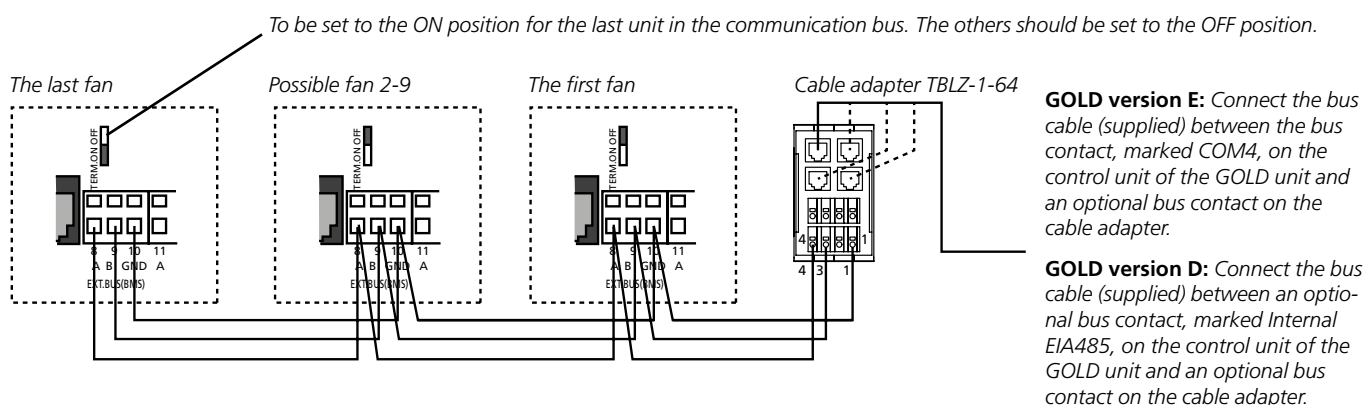
4.1 MIRU Control till GOLD

Up to ten power roof ventilators with MIRU Control equipment can be connected to one GOLD air handling unit by means of bus communication.

The cables are not included in the supply. Twisted-pair cables are recommended.



Basic wiring diagram for 2-10 MIRU Control units



5. Control panel and how to use the menus

5.1 Control panel in the MIRU Control

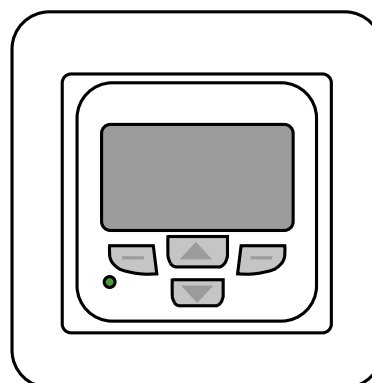
5.1.1 General

The terminal is mounted in the control box.

The hand-held micro terminal has an illuminated display, 4 pushbuttons and an LED for indicating normal operation or alarms. The LED is lit with a steady green glow while the fan is operating normally and flashes red if an alarm has tripped.

5.1.2 The buttons

The function of the buttons changes depending on the current menu in use. The functions of the buttons are shown as text/symbols along the lower edge of the display screen.



5.1.3 Display screen

The display screen has 3 lines. Many of the menus however have more lines and these are scrolled line for line as you press the ARROW DOWN button.

5.2 The menu tree

Alarms		
Alarm text		
<Exit	↑↓	Reset>

Indicates alarms in plain text

MIRU Control	Mon. 22:20
HIGH SPEED	
→ ⊖☐	
Stop	Menu

→| Indicates that the MIRUVENT is controlled by any of the external inputs: stop, low speed or high speed.

⊖ Indicates that the MIRUVENT is controlled by the internal time switch to operate at low speed or high speed.

☐ Indicates that the MIRUVENT is controlled by an external supervisory system via an external BUS.

User level

NOTE! The appearance of the menus varies depending on the functions selected.

MAIN MENU	
Time/Date	
Flow/Pressure	
<Exit	Select>

Time / Date		
Sun. 1.1.2010		
0:13		
<Exit	↑↓	Edit>

Flow / Pressure		
Pressure, Pa	123	
Setp. Pa	200	
<Exit	↑↓	Edit>

Energy status		
SFP. 0,00 kW/m ³ /s		
Power: 0 W		
<Exit	↑↓	Reset>

Temp. comp.		
Temp °C	25.7	
<Exit	↑↓	Edit>

Base setting		
Size	25-28-3-0	
Flow unit	m ³ /s	
<Exit	↑↓	Edit>

Språk/language		
Swedish		
<Exit	↑↓	Confirm>

Program versions		
Control unit	1.0	
Display	1.0	
<Exit		

Service level.

A code is required, see Section 8.

Enter code		
0 0 0 0		
<Exit	↑↓	>

6. Start/Main menu

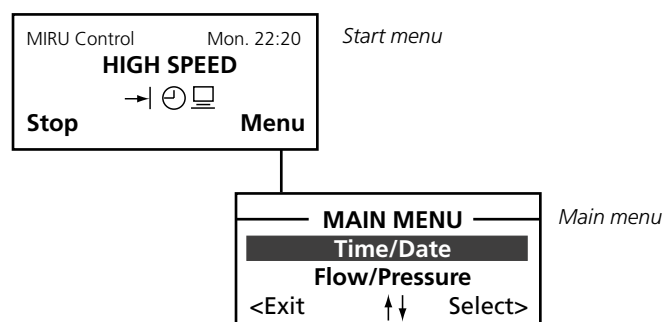
The start menu is normally shown if no other menu has been selected.

The display automatically returns to the start menu after 5 minutes since the latest press of a button.

The content in the menu changes depending on the operating mode selected, other functions that affect the present operating mode and possible tripped alarms.

The main menu is accessible from the start menu by pressing the Menu button.

The user level and the service level are accessible from the main menu. Select the desired function by navigating with the arrow buttons and press Select when you have marked the desired function.



6.2 Selection of language

When the MIRU Control unit is energized for the first time, a language selection menu is displayed. Select the appropriate language.

If you want to change language at a later opportunity – or if you happened to select the wrong language – you can change the language in the main menu under Language, see Section 6.6.

6.3 To change the operating mode

The power roof ventilator can be started and stopped from the main menu. It is possible to alternate between stopped power roof ventilator and automatic operation.



The power roof ventilator should normally be started and stopped from the hand-held micro terminal; not by switching the safety isolating switch on and off.

6.4 To set the fan size

You must always set the fan size. This can be done in the main menu under base setting. The fan size can be read on the rating plate of the power roof ventilator.

7. User level

7.1 Time/Date, time switch

Time/Date

The current date and time can be set and adjusted if needed. The Time switch clock (timer) automatically takes leap years into consideration.

The system is preset for automatic changeover between summer time/winter time according to EU Standard. It is possible to block this changeover.

Weekly program/Time channels

Times and days can be set when the power roof ventilator is to run in the high speed mode and low speed mode. Non-programmable times mean that the power roof ventilator is stopped (if the digital inputs or communication are not active).

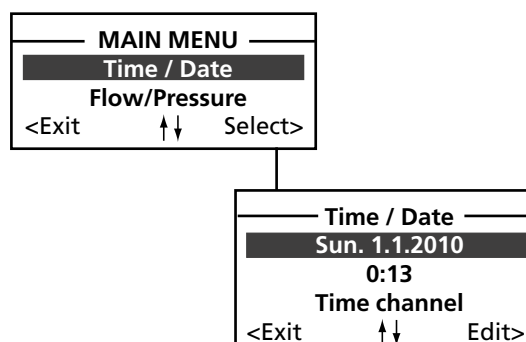
Four different time channels can be set. If the same in-operation times are to apply every day of the week (Mon.–Sun.), you need only program one time channel. Various in-operation times during the days of the week should be programmed in separate time channels (Mon.–Fri., Sat.–Sun. or Mon., Tues., Wed., etc.)

If the control equipment is in operation around the clock, we recommend using the digital inputs.

Settings:

Value	Setting range	Factory setting
TIME/DATE		
Year	2010-2099	2010
Month	Jan./Dec.	Jan.
Day	Mon.-Sun. (autom.)	Automatic
Date	1-31	1
Time	00:00-23:59	00:00
Summer time	Yes/No	Yes
TIME CHANNEL		
1-4*		
Channel	1-4	Select
Period	Inactive	Inactive
	Mon., Tues., Wed., etc.	
	Mon.-Fri.	
	Sat.-Sun.	
	Mon.-Sun.	
Operation	Low speed/High speed	Low speed
Start time	00:00-23:59	00:00
Stop time	00:00-23:59	00:00

* When connecting up to the GOLD, these settings can be entered in the GOLD unit hand-held micro terminal or the built-in web page. The preset values can then only be viewed on the MIRU Control display screen.



7.2 Flow/Pressure



Basic functions can be set under Base settings and the values can be read and set under the Flow/Pressure menu group.

7.2.1 Regulation

Flow regulation (control)

Flow regulation involves operating the power roof ventilator to keep the preset airflow constant. The power roof ventilator fan speed is automatically regulated to provide correct airflow.

Constant airflow is advantageous, since the airflow is always exactly as it has been preset from the beginning.

The flow is measured by an external pressure sensor that has been installed in the power roof ventilator. Measurementappings are also provided there for airflow measurement. The sensor must be connected to the BUS communication contact of the control unit. The setpoint required (separate for low speed and high speed) can be set in l/s, m³/s or m³/h.

It should however be noted that everything that increases the pressure drop in the ventilation system, such as the blocking of air devices and dust accumulating in the filters, automatically causes the power roof ventilator to run at a higher speed. This causes higher power consumption and may also cause comfort problems in the form of noise.

The function can be limited so that the fan speed will not exceed the preset max. permissible values.

Pressure regulation

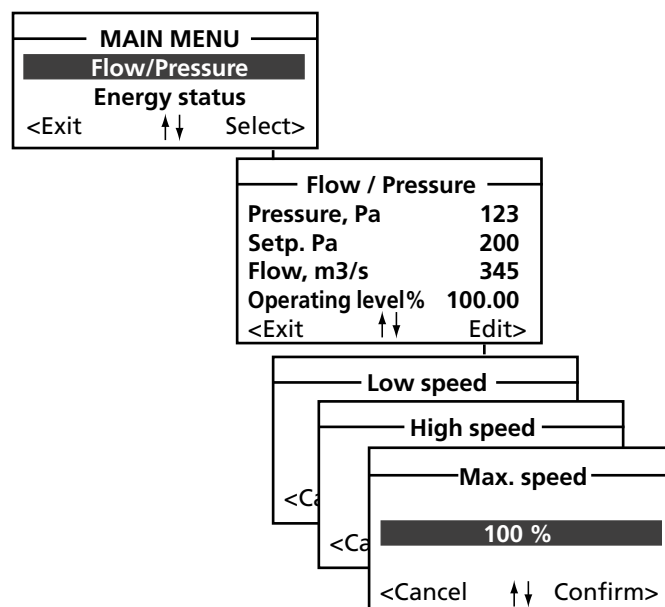
The airflow automatically varies to provide constant pressure in the ducting. This type of control is also called VAV regulation (Variable Air Volume).

Pressure regulation is used when e.g. damper operations increase the air volume in sections of the ventilation system.

The duct pressure is measured by an external in-duct pressure sensor which is connected to the BUS communication of the control unit. The setpoint required (separate for low speed and high speed) is adjusted in Pa.

Min. flows, Max. flows, Low speed, High speed

AIRFLOW MIRU-	MIN. AIRFLOW		MAX. AIRFLOW		SMALLEST STEP		FACTORY PRESET LOW SPEED		FACTORY PRESET HIGH SPEED	
	m ³ /h	m ³ /s	m ³ /h	m ³ /s	m ³ /h	m ³ /s	m ³ /h	m ³ /s	m ³ /h	m ³ /s
25-28-3-0	360	0.10	2025	0.56	25	0.01	540	0.15	1440	0.40
25-31-3-0	425	0.12	2625	0.73	25	0.01	720	0.20	2160	0.60
35-35-3-0	575	0.16	3450	0.96	25	0.01	900	0.25	2520	0.70
35-40-3-0	650	0.18	3875	1.07	25	0.01	1080	0.30	3240	0.90
35-45-3-0	1000	0.28	5900	1.64	25	0.01	1260	0.35	3960	1.10
45-50-3-0	1250	0.35	7400	2.05	25	0.01	1800	0.50	5400	1.50
45-50-1-4	1500	0.42	8900	2.47	25	0.01	2340	0.65	6840	1.90
45-50-1-6	1000	0.27	5700	1.58	25	0.01	1440	0.40	4680	1.30
45-56-1-4	1950	0.54	11400	3.16	25	0.01	2880	0.80	8640	2.40
45-56-1-6	1250	0.34	7300	2.03	25	0.01	1800	0.50	5400	1.50
56-63-1-6	2000	0.56	11800	3.28	25	0.01	2880	0.80	9000	2.50
56-71-1-6	2600	0.70	15100	4.20	100	0.50	3600	1.00	10800	3.00
71-80-1-8	3200	0.90	18400	5.10	100	0.50	4680	1.30	14040	3.90
71-90-1-8	4300	1.20	24000	6.66	100	0.50	5760	1.60	18000	5.00



The function can be limited so that the fan speed will not exceed the preset max. permissible values.

7.2.1 Readings

Used for performance checks. The current pressure can be shown depending on which pressure sensor(s) is/are connected.

7.2.2 Settings

The functions selected under Base setting and the min. and max. airflows of each fan size (see the table below) determine which values can be set.

Conditional on the function selected, settings can be entered as flow (l/s, m³/s, m³/h) or pressure tryck (Pa).

When connecting up to the GOLD, settings can only be changed in the GOLD unit hand-held micro terminal.

Low speed

Should always be preset.

High speed

Should always be preset.

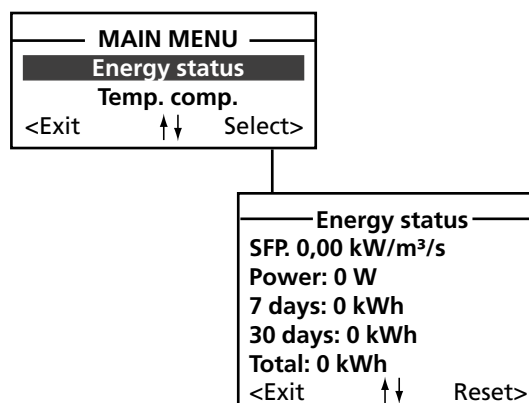
Max. speed

Make it possible to limit the max. speed of the power roof ventilator. The factory setting is 100%.

7.3 Energy status

The SFP value, current power output, energy consumption for the most recent seven or thirty days and total energy consumption since the start can be read on the screen.

The TBLZ-1-23 flow/pressure sensor accessories must be connected and must be active before an SFP reading can be viewed.



7.4 Temperature compensation

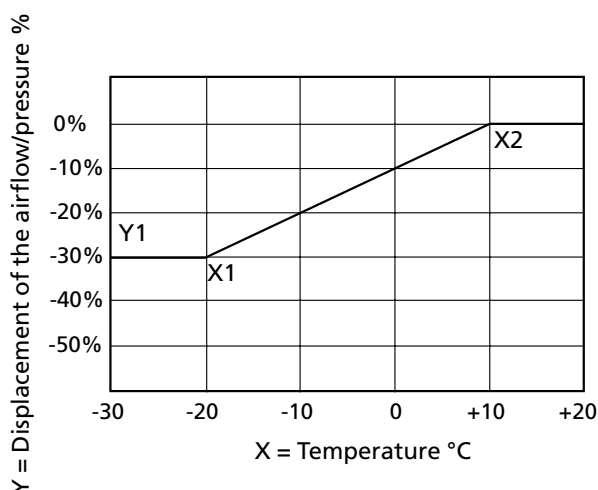
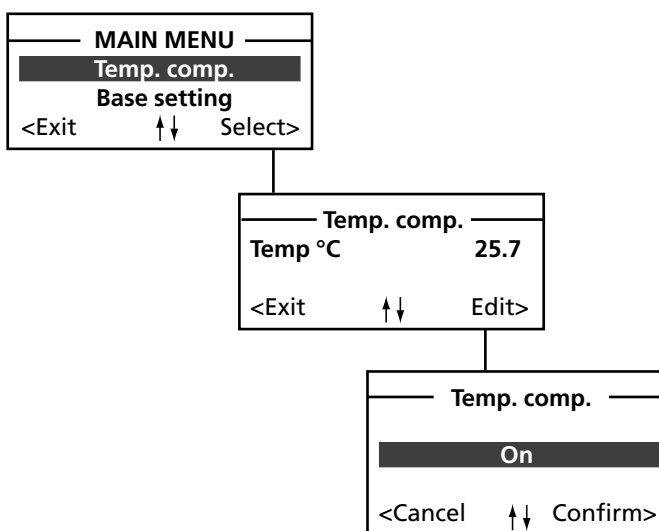
The airflow temperature compensation mode can be activated if it is desirable to displace the airflow as a function of the outdoor air temperature or the room air temperature.

In the flow regulation mode, the current setpoint for airflow is offset. In the pressure regulation mode, the current setpoint for pressure is offset.

The current temperature on the connected sensor is shown in °C.

Settings:

Value	Setting range	Factory setting
Temperature compensation	Off/On	On
Y1, max. reduction	-100 – +100%	30 %
X1, breakpoint	-40 – +40 °C	-20 °C
X2, breakpoint	-40 – +40 °C	+10 °C



Temperature compensation according to the factory settings Involves the following:

A temperature of +10 °C (Breakpoint X2): Compensation starts and gradually proceeds between 0 – 30 % down to an outdoor air temperature of -20 °C.

Outdoor air temperature of -20 °C (Breakpoint X1): 30 % constant compensation takes place.

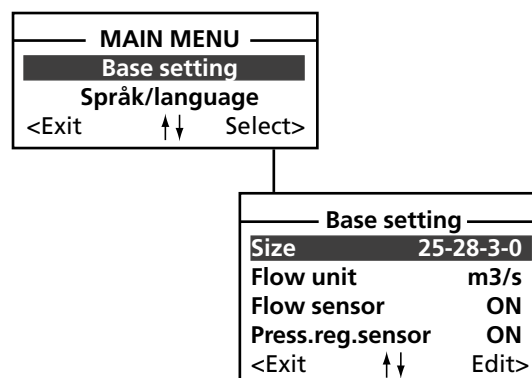
7.5 Base setting

The fan size should be set and the flow unit can be changed. The flow regulation and pressure regulation modes can be selected.

When pressure regulation and flow regulation are in the ON position, the power roof ventilator is controlled by pressure regulation and the airflow reading is shown on the screen at the same time. If pressure regulation is in the OFF position (and flow regulation is in the ON position) the power roof ventilator is controlled by flow regulation.

Settings:

Value	Setting range	Factory setting
Fan size (see the rating plate)		25-28-3-0
Flow unit	m³/s, m³/h, l/s	m³/s
Flow regulation (control)	Off/On	Off
Pressure regulation	Off/On	On



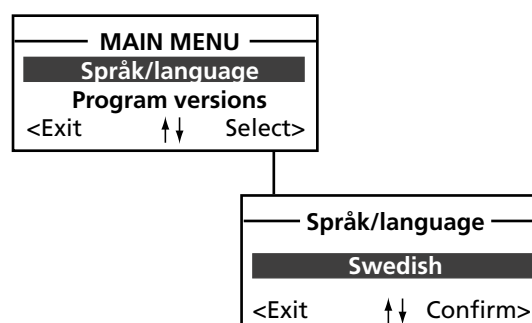
7.6 Språk/Language

The language desired can be set here. Normally this setting is entered when the unit is started for the first time and the question ÄNDRA/EDIT? automatically appears on the screen of the hand-held terminal.

However, the language setting can be changed at any time.

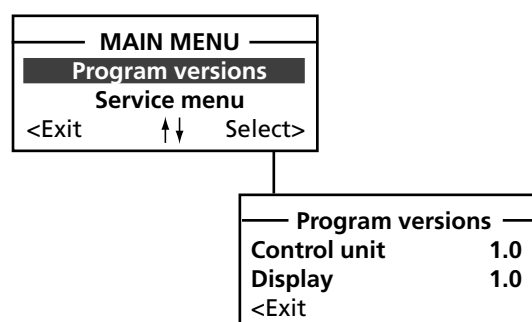
Settings:

Value	Setting range	Factory setting
Language	English, Swedish	English



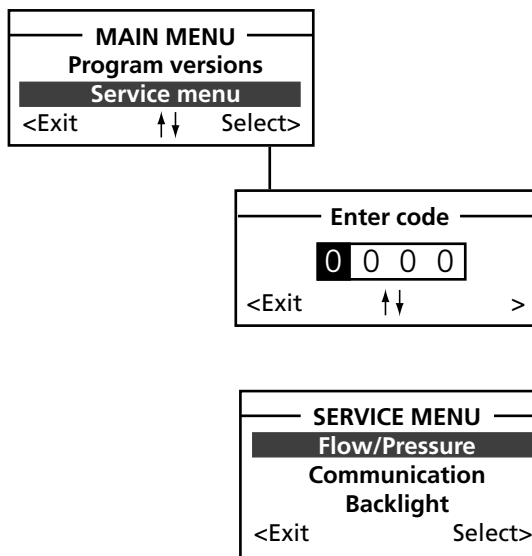
7.7 Program versions

All the current program versions can be read here.



8. Service level.

The service menu access code is 1112.



8.1 Air flow/Pressure

The control parameters of the P-band, I-time and dead band can be read and changed for pressure and flow regulation (only parameters for activated function are shown). Settings:

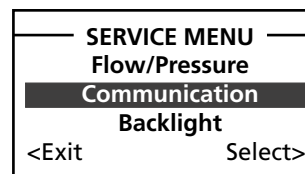
Value	Setting range	Factory setting
Pressure reg. P	0-1000	10
Pressure reg. I	0-2500	25
Pressure reg. DZ	1-50	3
Flow reg. P	0-1000	1
Flow reg. I	0-2500	15
Flow reg. DZ	1-50	2

8.2 Communication

The value of Modbus ID, speed, parity and stop bits can be read and changed.

Settings:

Value	Setting range	Factory setting
Modbus ID	1-247*	100
Speed	9600/38400/19200	38400**
Parity	None/Even/Odd	None**
Stop bits	1/2	1**



* When connecting to the GOLD, the Modbus ID should be as follows:

Fan	Modbus ID
1	100
2	101
3	102
4	103
5	104
6	105
7	106
8	107
9	108
10	109

** When connecting to the GOLD, the value should be the same as the factory setting.

8.3 Backlight

The value of the display backlight can be read and changed.

Settings:

Value	Setting range	Factory setting
Brightness	0-100%	80%
Delay	Always off/1-30 min./always on	5 min.

SERVICE MENU	
Flow/Pressure Communication	
Backlight	
<Exit	Select>

9. Automatic function

Zero calibration is an automatic function carried out when the fan motor has stopped for at least 3 minutes. The Zero calibration text is shown in the hand-held micro terminal.

10. Alarm description

Alarm no.	Alarm text Operation	Stop	De- lay	Re- set
		0 = In operation	s = second	M = manual
		1 = Stop	m = minute	A = automatic
1	FAN TRIPPED The motor control system of the fan (VFD) has initiated an alarm.	1	10 sec.	M
2	FAN COMM. ERROR The MIRU Control unit cannot establish correct communication with the power roof ventilator's motor control system.	1	10 sec.	A
3	FLOW SENSOR ERROR The MIRU Control unit cannot establish correct communication with the flow/pressure sensor.	1	10 sec.	A
4	PRESSURE SENSOR ERROR The MIRU Control unit cannot establish correct communication with the duct pressure sensor.	1	10 sec.	A
5	TEMPERATURE SENSOR ERROR The MIRU Control unit cannot obtain a correct signal from the temperature sensor.	0	10 sec.	A
6	FLOW/PRESSURE DEV. The airflow/pressure continuously deviates by more than +/- 20% from its setpoint.	0	20 min.	M

11. Commissioning Record

Company

Our reference

Client	Date	SO No.
Plant	Project/Power roof ventilator	Subject no:
Plant address	Type/size	Program version:

Time switch clock, current time set ☐

Other controls

Summer time ☐ Yes ☐ No

Settings – time channels, time switch clock

Channel	Operating mode		Times			Weekday
1	Low	<input type="checkbox"/>	High	<input type="checkbox"/>	: – :	:
2	Low	<input type="checkbox"/>	High	<input type="checkbox"/>	: – :	:
3	Low	<input type="checkbox"/>	High	<input type="checkbox"/>	: – :	:
4	Low	<input type="checkbox"/>	High	<input type="checkbox"/>	: – :	:

Function	Factory-preset value	Adjusted value
Flow/Pressure		
Flow, low speed	1) _____	1) _____
Flow, high speed	1) _____	1) _____
Pressure, low speed Pa	100	_____
Pressure, high speed Pa	200	_____
Max. fan speed (%)	100%	_____
Temperature compensation	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On	<input type="checkbox"/> Off <input type="checkbox"/> On
Max. reduction Y1 (%)	30	
Break point X1 (°C)	-20	
Break point X2 (°C)	10	
Base settings		
Fan size	25-28-3-0	
Flow unit	m³/s	
Flow regulation	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On	<input type="checkbox"/> Off <input type="checkbox"/> On
Pressure regulation	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On	<input type="checkbox"/> Off <input type="checkbox"/> On
Språk/Language		
Language	English	
Communication		
Modbus ID 2)	100	
Velocity	38400	
Parity	None	
Stop bits	1	
Time channel 1		
Period	<input checked="" type="checkbox"/> Disabled <input type="checkbox"/> Low sp., Mon. <input type="checkbox"/> Low sp., Tues. <input type="checkbox"/> Low sp., Wed. <input type="checkbox"/> Low sp., Thurs. <input type="checkbox"/> Low sp., Fri. <input type="checkbox"/> Low sp., Sat. <input type="checkbox"/> Low sp., Sun. <input type="checkbox"/> Low sp., Mon.-Fri <input type="checkbox"/> Low sp., Sat-Sun <input type="checkbox"/> Low sp., Mon.-Sun. <input type="checkbox"/> High sp., Mon. <input type="checkbox"/> High sp., Tues. <input type="checkbox"/> High sp., Wed. <input type="checkbox"/> High sp., Thu. <input type="checkbox"/> High sp., Fri. <input type="checkbox"/> High sp., Sat. <input type="checkbox"/> High sp., Sun. <input type="checkbox"/> High sp., Mon.-Fri. <input type="checkbox"/> High sp., Sat.-Sun. <input type="checkbox"/> High sp., Mon.-Sun.	<input type="checkbox"/> Disabled <input type="checkbox"/> Low sp., Mon. <input type="checkbox"/> Low sp., Tues. <input type="checkbox"/> Low sp., Wed. <input type="checkbox"/> Low sp., Thu. <input type="checkbox"/> Low sp., Fri. <input type="checkbox"/> Low sp., Sat. <input type="checkbox"/> Low sp., Sun. <input type="checkbox"/> Low sp., Mon.-Fri. <input type="checkbox"/> Low sp., Sat.-Sun. <input type="checkbox"/> Low sp., Mon.-Sun. <input type="checkbox"/> High sp., Mon. <input type="checkbox"/> High sp., Tue. <input type="checkbox"/> High sp., Wed. <input type="checkbox"/> High sp., Thu. <input type="checkbox"/> High sp., Fri. <input type="checkbox"/> High sp., Sat. <input type="checkbox"/> High sp., Sun. <input type="checkbox"/> High sp., Mon.-Fri. <input type="checkbox"/> High sp., Sat.-Sun. <input type="checkbox"/> High sp. Mon.-Sun.
Start time hh:mm	00:00	
Stop time hh:mm	00:00	

1) See Section 7.2.

2) See Section 8.2.

Function		Factory-preset value	Adjusted value
Time channel 2			
Period		<input checked="" type="checkbox"/> Disabled <input type="checkbox"/> Low sp., Mon. <input type="checkbox"/> Low sp., Tue. <input type="checkbox"/> Low sp., Wed. <input type="checkbox"/> Low sp., Thu. <input type="checkbox"/> Low sp., Fri. <input type="checkbox"/> Low sp., Sat. <input type="checkbox"/> Low sp., Sun. <input type="checkbox"/> Low sp., Mon.-Fri. <input type="checkbox"/> Low sp., Sat.-Sun. <input type="checkbox"/> Low sp., Mon.-Sun. <input type="checkbox"/> High sp., Mon. <input type="checkbox"/> High sp., Tue. <input type="checkbox"/> High sp., Wed. <input type="checkbox"/> High sp., Thu. <input type="checkbox"/> High sp., Fri. <input type="checkbox"/> High sp., Sat. <input type="checkbox"/> High sp., Sun. <input type="checkbox"/> High sp., Mon.-Fri. <input type="checkbox"/> High sp., Sat.-Sun. <input type="checkbox"/> High sp., Mon.-Sun.	<input type="checkbox"/> Disabled <input type="checkbox"/> Low sp., Mon. <input type="checkbox"/> Low sp., Tue. <input type="checkbox"/> Low sp., Wed. <input type="checkbox"/> Low sp., Thu. <input type="checkbox"/> Low sp., Fri. <input type="checkbox"/> Low sp., Sat. <input type="checkbox"/> Low sp., Sun. <input type="checkbox"/> Low sp., Mon.-Fri. <input type="checkbox"/> Low sp., Sat.-Sun. <input type="checkbox"/> Low sp., Mon.-Sun. <input type="checkbox"/> High sp., Mon. <input type="checkbox"/> High sp., Tue. <input type="checkbox"/> High sp., Wed. <input type="checkbox"/> High sp., Thu. <input type="checkbox"/> High sp., Fri. <input type="checkbox"/> High sp., Sat. <input type="checkbox"/> High sp., Sun. <input type="checkbox"/> High sp., Mon.-Fri. <input type="checkbox"/> High sp., Sat.-Sun. <input type="checkbox"/> High sp., Mon.-Sun.
Start time	hh:mm	00:00	
Stop time	hh:mm	00:00	
Time channel 3			
Period		<input checked="" type="checkbox"/> Disabled <input type="checkbox"/> Low sp., Mon. <input type="checkbox"/> Low sp., Tue. <input type="checkbox"/> Low sp., Wed. <input type="checkbox"/> Low sp., Thu. <input type="checkbox"/> Low sp., Fri. <input type="checkbox"/> Low sp., Sat. <input type="checkbox"/> Low sp., Sun. <input type="checkbox"/> Low sp., Mon.-Fri. <input type="checkbox"/> Low sp., Sat.-Sun. <input type="checkbox"/> Low sp., Mon.-Sun. <input type="checkbox"/> High sp., Mon. <input type="checkbox"/> High sp., Tue. <input type="checkbox"/> High sp., Wed. <input type="checkbox"/> High sp., Thu. <input type="checkbox"/> High sp., Fri. <input type="checkbox"/> High sp., Sat. <input type="checkbox"/> High sp., Sun. <input type="checkbox"/> High sp., Mon.-Fri. <input type="checkbox"/> High sp., Sat.-Sun. <input type="checkbox"/> High sp., Mon.-Sun.	<input type="checkbox"/> Disabled <input type="checkbox"/> Low sp., Mon. <input type="checkbox"/> Low sp., Tue. <input type="checkbox"/> Low sp., Wed. <input type="checkbox"/> Low sp., Thu. <input type="checkbox"/> Low sp., Fri. <input type="checkbox"/> Low sp., Sat. <input type="checkbox"/> Low sp., Sun. <input type="checkbox"/> Low sp., Mon.-Fri. <input type="checkbox"/> Low sp., Sat.-Sun. <input type="checkbox"/> Low sp., Mon.-Sun. <input type="checkbox"/> High sp., Mon. <input type="checkbox"/> High sp., Tue. <input type="checkbox"/> High sp., Wed. <input type="checkbox"/> High sp., Thu. <input type="checkbox"/> High sp., Fri. <input type="checkbox"/> High sp., Sat. <input type="checkbox"/> High sp., Sun. <input type="checkbox"/> High sp., Mon.-Fri. <input type="checkbox"/> High sp., Sat.-Sun. <input type="checkbox"/> High sp., Mon.-Sun.
Start time	hh:mm	00:00	
Stop time	hh:mm	00:00	

Function	Factory-preset value	Adjusted value
Time channel 4		
Period	<input checked="" type="checkbox"/> Disabled <input type="checkbox"/> Low speed, Mon. <input type="checkbox"/> Low speed, Tue. <input type="checkbox"/> Low speed, Wed. <input type="checkbox"/> Low speed, Thu. <input type="checkbox"/> Low speed, Fri. <input type="checkbox"/> Low speed, Sat. <input type="checkbox"/> Low speed, Sun. <input type="checkbox"/> Low speed, Mon.-Fri. <input type="checkbox"/> Low speed, Sat.-Sun. <input type="checkbox"/> Low speed, Mon.-Sun. <input type="checkbox"/> High speed, Mon. <input type="checkbox"/> High speed, Tue. <input type="checkbox"/> High speed, Wed. <input type="checkbox"/> High speed, Thu. <input type="checkbox"/> High speed, Fri. <input type="checkbox"/> High speed, Sat. <input type="checkbox"/> High speed, Sun. <input type="checkbox"/> High speed, Mon.-Fri. <input type="checkbox"/> High speed, Sat.-Sun. <input type="checkbox"/> High speed, Mon.-Sun.	<input type="checkbox"/> Disabled <input type="checkbox"/> Low speed, Mon. <input type="checkbox"/> Low speed, Tue. <input type="checkbox"/> Low speed, Wed. <input type="checkbox"/> Low speed, Thu. <input type="checkbox"/> Low speed, Fri. <input type="checkbox"/> Low speed, Sat. <input type="checkbox"/> Low speed, Sun. <input type="checkbox"/> Low speed, Mon.-Fri. <input type="checkbox"/> Low speed, Sat.-Sun. <input type="checkbox"/> Low speed, Mon.-Sun. <input type="checkbox"/> High speed, Mon. <input type="checkbox"/> High speed, Tue. <input type="checkbox"/> High speed, Wed. <input type="checkbox"/> High speed, Thu. <input type="checkbox"/> High speed, Fri. <input type="checkbox"/> High speed, Sat. <input type="checkbox"/> High speed, Sun. <input type="checkbox"/> High speed, Mon.-Fri. <input type="checkbox"/> High speed, Sat.-Sun. <input type="checkbox"/> High speed, Mon.-Sun.
Start time hh:mm	00:00	
Stop time hh:mm	00:00	
<i>The functions below can only be set in the hand-held micro terminal of the GOLD unit.</i>		
Fan No. 2)	<input checked="" type="checkbox"/> Inactive <input type="checkbox"/> Parallel start <input type="checkbox"/> Parallel low speed/high speed <input type="checkbox"/> Parallel start and low speed/high speed	<input type="checkbox"/> Inactive <input type="checkbox"/> Parallel start <input type="checkbox"/> Parallel low speed/high speed <input type="checkbox"/> Parallel start and low speed/high speed
Balance function	<input checked="" type="checkbox"/> Inactive <input type="checkbox"/> Supply air <input type="checkbox"/> Extract air	<input type="checkbox"/> Inactive <input type="checkbox"/> Supply air <input type="checkbox"/> Extract air

2) See Section 8.2.

