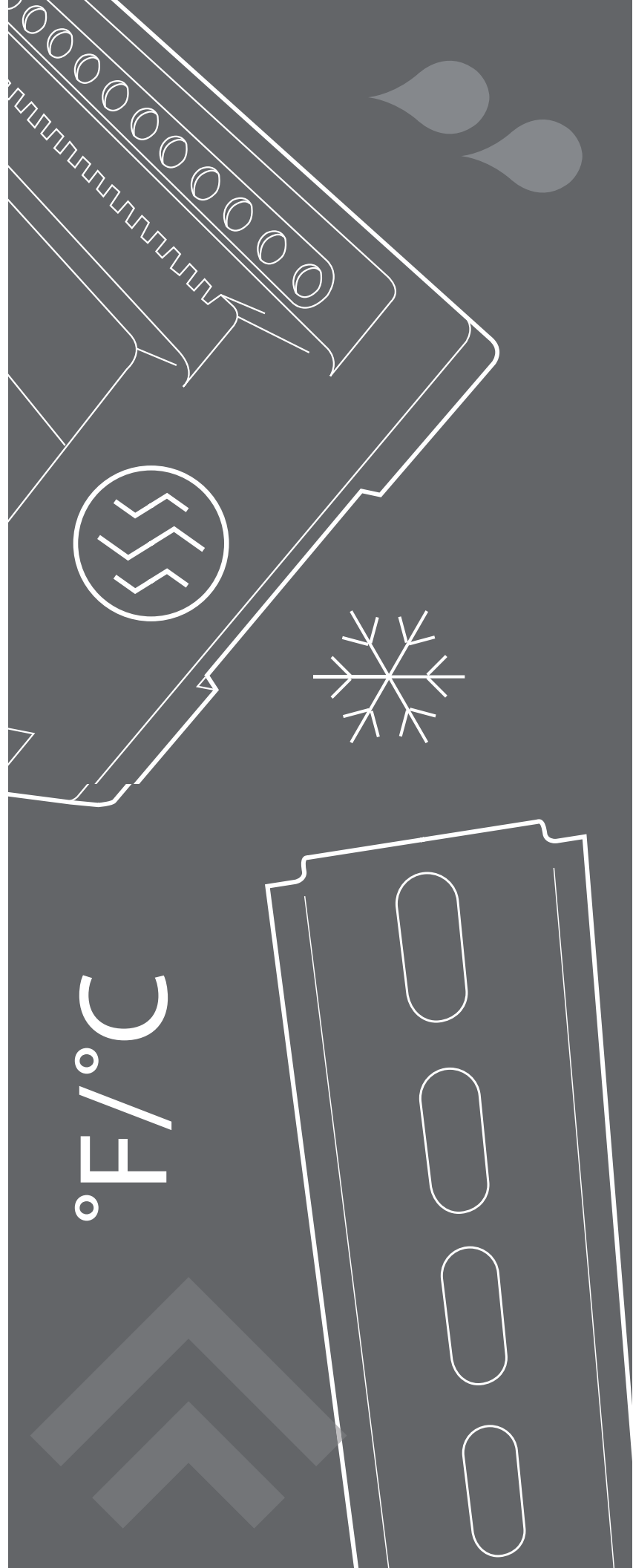


User Manual GX™ 850 controller

°F/°C



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Sensor cable extension

Ground system	1 pcs. PSU 24V dc. 24W	2 pcs. PSU 24V, 24W in parallel
Number of sensors:	1 or 2	3
Cable type	Max. length (m)	Max. length (m)
1 mm ²	985' (300)	492' (150 m)
1,5 mm ²	1476' (450)	738' (225 m)
2,5 mm ²	2460' (750)	1247' (380 m)
4 mm ²	3940' (1200)	1969' (600 m)
		Max length (m)
		262' (80 m)
		394' (120 m)
		656' (200 m)
		1017' (310 m)

Roof system	1 pcs. PSU 24V dc. 24W	2 pcs. PSU 24V, 24W in parallel
Number of sensors:	1	2
Cable type	Max. length (m)	Max. length (m)
1 mm ²	1312' (400 m)	328' (100 m)
1,5 mm ²	1969' (600 m)	492' (150 m)
2,5 mm ²	3281' (1000 m)	820' (250 m)
4 mm ²	5249' (1600 m)	1312' (400 m)
		Max. length (m)
		427' (130 m)
		656' (200 m)
		1083' (330 m)
		1722' (525 m)
		Max length (m)
		246' (75 m)
		360' (110 m)
		623' (190 m)
		984' (300 m)

Post-heating

If the reason for ending a heating period is a decrease of moisture to below the chosen level, the post-heating period will start. Post-heating ensures that no ice and snow is left on the ground.

⚠ If system priority is low, heating might be paused at any time!

⚠ The ground system uses heated sensors which under normal circumstances will hold a temperature of 35°F (1.5°C). In connection with measuring the area temperature heating of the sensor is turned off for 90 minutes at a time. This is done in order to obtain a correct measurement of area temperature which is not influenced by sensor temperature. If a system only has one sensor this sensor is constantly heated for 90 minutes and then turned off for 90 minutes. This entails that measurement of temperature can be up to 3 hours delayed. With more than one sensor this performance is significantly improved.

Security and energy consumption**High security – higher energy consumption**

If a high degree of security against ice and snow is wanted, make the following adjustments of the operation parameters:

- Increase the standby temperature
- Increase the melting temperature
- Decrease the moisture level (close to setting 5)
- Prolong the post-heat period

This will give a high degree of security in even dry areas.

Low security – lower energy consumption

Conversely, low energy consumption and a moderate level of security against ice and snow could be prioritized. In this case make the following adjustments of the operation parameters:

- Decrease the standby temperature
- Decrease the melting temperature
- Increase the moisture level
- Shorten the post-heat period

This will give relatively low energy consumption, but the area may remain wet and icy in short periods.

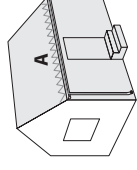
⚠ The factory settings are average values providing a relatively high degree of security and moderate energy consumption.

System overview

The GX™ 850 system is capable of keeping outdoor areas free of ice and snow. The GX™ 850 can handle up to 2 independent areas, in any of the following combinations:

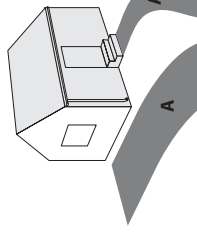
- **Single roof system**

To keep gutters, valley gutters and down pipes free of ice and snow, and to prevent ice dams from causing damage. It is also possible to use the roof system to reduce/remove the snow weight from a roof. (Roof system A)



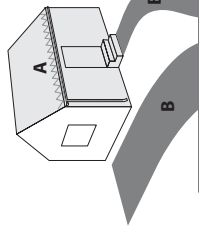
- **Single ground system**

To keep areas like parking areas, paths, garage entrances, steps, ramps, roadways and bridges free of ice and snow. (Ground systems A)



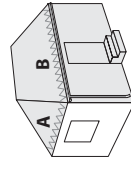
- **1 ground system and 1 roof system**
(combi system)

Consists of 1 single roof system A and 1 single ground system B.



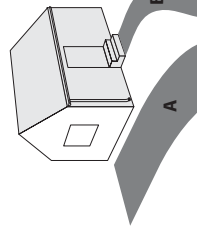
- **2 roof systems** (dual system)

Consists of 2 x "Single roof systems (A and B)".



- **2 ground systems** (dual system)

Consists of 2 x "Single ground systems (A and B)".



When more than 1 area is controlled by the GX™ 850 system, it is also possible to prioritize the areas. Prioritizing makes it possible to operate 2 areas, even if the required power for 2 areas is not present.

The GX™ 850 is fully automatic and operated digitally by means of the intelligent sensors located in the heated terrain. Each sensor measures both temperature and moisture, and the system turns the heating elements on and off based on these readings. By combining moisture and temperature readings, the system is able to save around 75% energy compared to systems which only measure temperature readings. The digital sensors used for the GX™ 850 also provide the most exact readings when compared with corresponding analogue systems. The result is optimum functionality and low energy consumption.

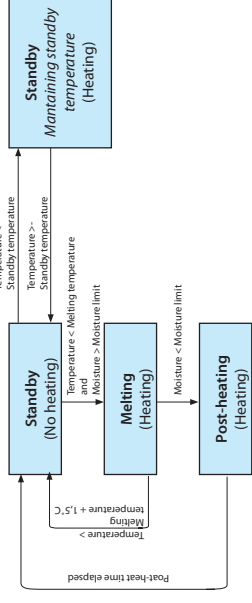
A typical installation consists of:

- **Controller unit** (only one)
This is the device which, based on the measurements from the sensors, decides when to heat the connected area(s).
- **Power supply** (one or more)
The power supply delivers power to the controller unit and the connected sensors.
- **Ground sensor** (one or more)
At least 1 ground sensor is needed for each ground area, but to get the best performance of a system, 2 or more sensors are recommended. For more information please refer to the sensor manual.
- **Roof sensor** (one or more)
At least 1 roof sensor is needed for each roof area, but for complex roof constructions, 2 or more sensors are recommended. For more information please refer to the sensor manual.

For more information about the ice and snow melting function of the GX™ 850, please refer to: Appendix B: "How it works".

Ground system

The ground system is fully automated. It gathers information on moisture and temperature via digital sensors continuously. The sensors are placed on strategic spots on the ground area (for further information on the sensor please refer to the sensor manual). By combining measurements of both moisture and temperature a reliable detection of the situation is achieved. Hence it is known whether heating is required to prevent ice and snow from covering the roof area.



Standby

The system is on standby awaiting need for heating. If the measured temperature is below the chosen standby temperature the system will automatically heat the area in order to maintain the standby temperature.

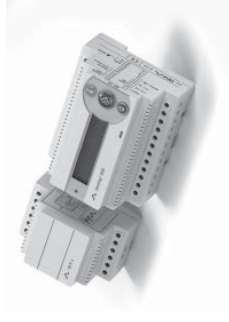
- Melting (heating) will start when the two following conditions are fulfilled:
- Measured moisture is higher than the chosen setpoint for moisture.
 - Measured temperature is lower than the chosen melting temperature
- Temperature and moisture are measured continuously by the sensors.

Melting ice and snow

As long as the measured temperature is lower than the chosen melting temperature heating of the ground area will be on. When the measured temperature reaches the chosen melting temperature and the measured moisture level is below the chosen limit, the post-heating function will be activated. The post-heating function can be disabled.

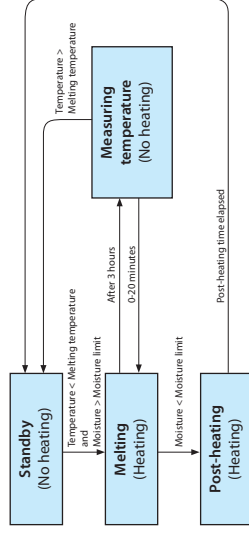
If moisture is detected on the ground area the system will continue to heat the area in order to maintain the melting temperature. It is, however, important to understand that even when the system is melting ice and snow it is not necessarily heating at all times. The heating will be turned on and off in accordance with the measured temperature in order to maintain a constant melting temperature.

If the temperature rises more than 35°F (1.5°C) above the chosen melting temperature the system will automatically stop heating the area irrespective of the moisture on the area.



B: How it works Roof system

The roof system is fully automated. It gathers information on moisture and temperature via digital sensors continuously. The sensors are placed on strategic spots in gutters or down pipes (for further information on the sensor please refer to the sensor manual). By combining measurements of both moisture and temperature a reliable detection of the situation is achieved. Hence it is known whether heating is required to prevent ice and snow from covering the roof area.



Standby

The system is on standby and awaits heating of the roof area. Heating of the roof area will start when the following conditions are fulfilled:

- Measured moisture is higher than the chosen setpoint for moisture.
 - Measured temperature is lower than the chosen setpoint for temperature.
- Temperature and moisture are measured continuously by the sensors.

Melting ice and snow

The roof area is heated in periods of 3 hours. Within that period a decrease in moisture will stop the heating and activate post-heating. The post-heating function can be disabled.

Measuring temperature

The heating function is suspended every third hour meaning that the heating cables are turned off. This is done in order to allow the sensors to measure the temperature, without being influenced by the heated cables. The temperature measurement may last up to 20 minutes. If the measured temperature is higher than the chosen melting temperature the heating period is ended; if not, heating of the roof area is resumed after the temperature measurement.

Post-heating




If the reason for ending a heating period is a decrease of moisture to below the chosen level the post-heating period will start. Post-heating ensures that no ice and snow is left on the roof.

General use



The GX™ 850 is operated via 3 buttons and an alpha numeric display capable of displaying information in various languages.

Buttons

The functions of the 3 buttons are:




-  Info Shows additional information / help (only active when lit)
-  Next Next menu entry / next line / next letter
-  Enter Confirm / select

Besides the normal function of the buttons, some special combinations are important to the user:

- Return to home:** Return to home of menu system
Hold for 2 seconds: 
- Master reset:** Restore factory defaults AND delete installed systems.
(In case of *unsolvable problems due to a wrong choice of language, etc.*)
Hold for 8 seconds: 

Display

The following icons have a special meaning:

-  This **animated icon** is shown, when the system is heating.
If icon is **blinking** the system wants to heat, but is paused (system has low priority)
-  This icon is shown, when the system has detected moisture, and the temperature is above the melting temperature.
-  This icon is shown, when the system has detected snow or ice, and the temperature is below the melting temperature.

The GX™ 850 can simultaneously control up to 2 different systems. These 2 systems are referred to as **System A** and **System B**. The GX™ 850 gives the user the opportunity to view the current status of the systems. The status can be shown in 2 different ways.

Combined view (default):

The combined view shows the status of both systems at the same time. **System A** is shown on the upper display line, and **System B** is shown on the lower display line. This view gives the user a quick overview of all the systems.



Flipped view:

The flipped view shows the status of one system at a time. The status of each system is shown for 5 seconds.



This view gives the user more detailed information about each system.



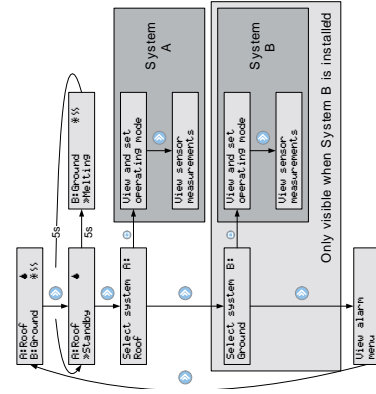
The user can always press **i** to get more information about the current status irrespective of view selected.

Menu system

The menu system is navigated by the keys **»»** and **□**.

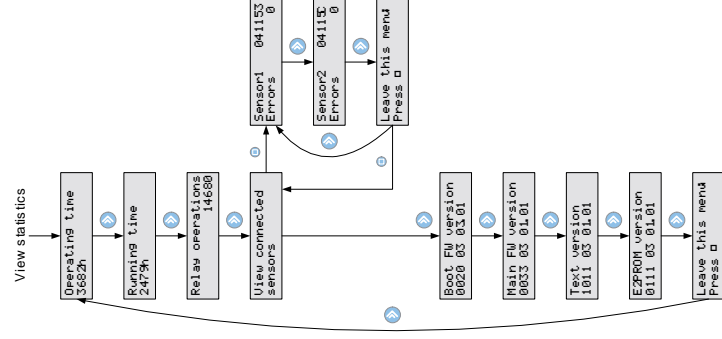
No matter if the GX™ 850 controls one or two systems, the look and use of the menu system is always the same. This is obtained by making the entry to each system in the main menu. The possibilities and settings for each system are first accessible after the user has selected the desired system.

To the right is given an example of the main menu and the menus for **System A** and **System B**.



! Please notice, that only a few of the menus for each system are shown! For a complete overview of the menu system, please refer to: Appendix A: "Menu system".

View statistic



Change system

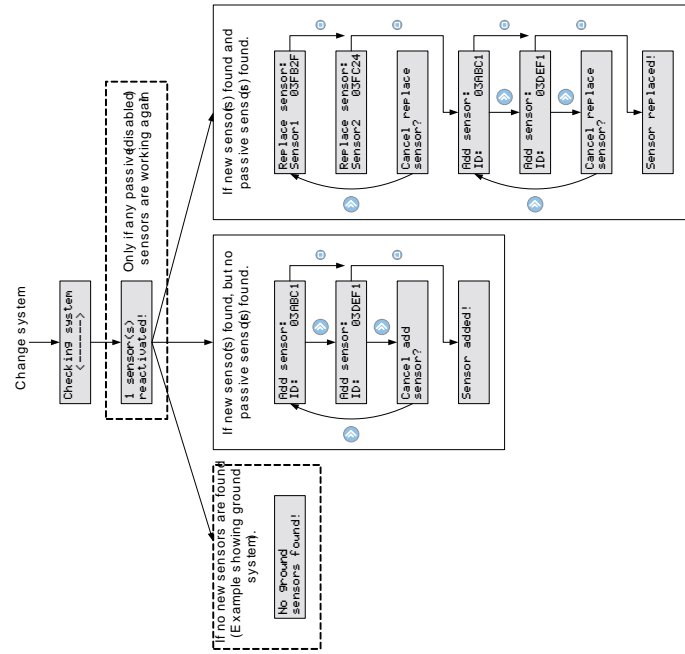
Possible alarms during operation

<p>Clogged drain</p>	<p>Description:</p> <p>When clogged drain warning has been enabled, the system constantly has been detecting moisture for 14 days.</p> <p>! If the GX™ 850 controls more than 1 system, and prioritizing has been enabled, the time before clogged drain warning for the down-prioritized system, can be much longer. The time is only updated when the system actually is allowed to heat the area (e.g. the higher priority system is not heating)</p>
<p>Solution:</p>	<p>- Check gutter and down pipes for any obstacles preventing the melting water to flow away. - Check if sensors are covered with dirt.</p>

<p>Missing sensor</p>	<p>Description:</p> <p>When the connection to a sensor is lost, the GX™ 850 alerts the user. At the same time the GX™ 850 automatically switches the system to "Constant Off" mode, and user interaction with the GX™ 850 is needed.</p>
<p>Solution:</p>	<p>- Acknowledge error and go to "Installer Site" in the menu system and select "Change System". - Contact your local installer to get a replacement.</p>

<p>New sensor added</p>	<p>Description:</p> <p>When a new sensor is added, the GX™ 850 alerts the user and at the same time automatically switches to "Constant Off" mode. User interaction is needed in order to correct the error.</p>
<p>Solution:</p>	<p>Acknowledge error and go to "Installer Site" in the menu system and select "Change System".</p>

<p>Sensor malfunction</p>	<p>Description:</p> <p>When something is wrong with the readings from connected sensors to the GX™ 850, an alarm is raised.</p>
<p>Solution:</p>	<p>! Not all error prone sensors can be discovered using this feature! - Acknowledge error and go to "Installer Site" in the menu system and select "Change System". - Contact your local service centre to get a replacement.</p>



Changing parameters and performance of systems

Several parameters for each system can be changed during and after the installation. For a complete understanding of how these parameters affect the performance of the roof and ground system, please refer to Appendix B: "How it works".



Only change the GX™ 850 parameters if you are aware of the effects of your actions.

Reference: Appendix A: Installer menu

Roof system

Melting temperature

Changing the melting temperature will affect when the system is activated in case of moisture and low temperatures.

The factory setting is 35 °F (1.5°C).

This means that the heating system will be activated if the temperature falls below 29 °F (1.5°C) and moisture is detected.

Moisture level

The "moisture level" decides when the system detects moisture.

The factory setting is 50 (on a scale from 5 to 95).

The lower the setting, the more sensitive the system is to moisture.

Post-heat

Once the sensor has detected that the roof/gutter is dry and free of ice and snow the system will keep heating for another hour (default). If you wish to increase/decrease this time see capital A: Installer menu.

The factory setting is 1 hour (on a scale from 0 to 9 hours)

Priority

When using the GX™ 850 as a dual or combi system, it is possible to prioritize the systems. When the priority of 2 systems is equal, both systems can heat at the same time. If the priority of the 2 systems differs, and both systems want to heat, only the system with the highest priority is allowed to heat.

The factory setting is 1 (highest priority) for all systems.

Clogged drain

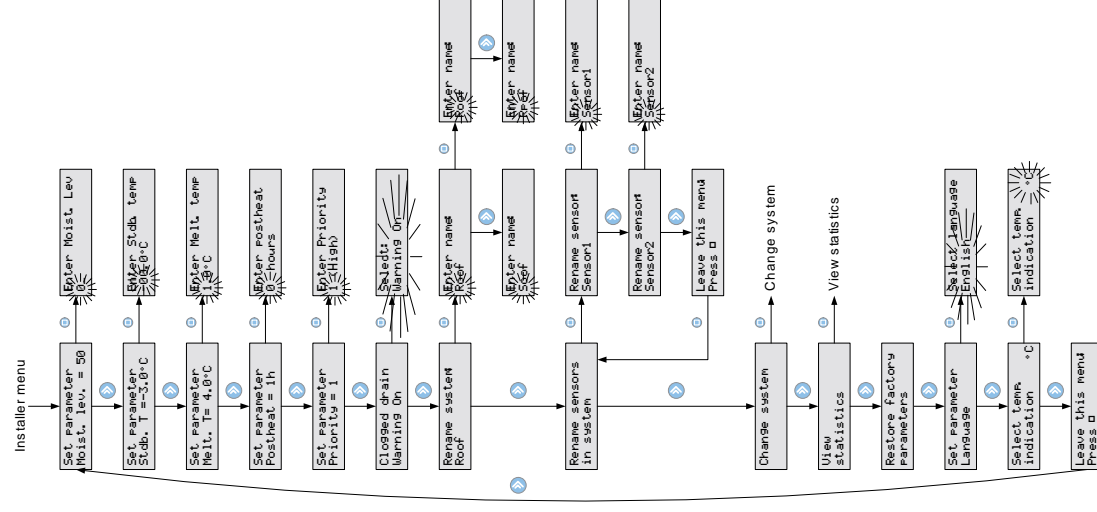
It is possible to enable and disable the "Clogged drain warning".

The factory setting is "Warning On".

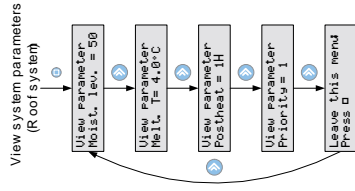
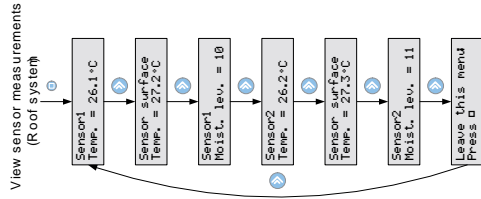
System and sensor name

It is possible to change the names of the system and connected sensors (see capital A: Installer menu.

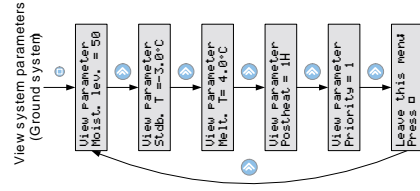
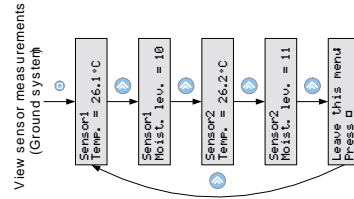
Installer menu



View sensor measurements



View sensor parameters



Ground system Melting temperature

Changing the melting temperature will affect when the system is activated in case of moisture and low temperatures.

The factory setting is 39°F (4°C).

This means that the heating system will be activated if the temperature falls below 4°C and moisture is detected.

Standby temperature (maintained ground temperature)

The higher the standby temperature the faster the system will be able to melt ice and snow.

On the other hand the higher the standby temperature the higher the running costs. So, determining the standby temperature is a trade-off between fast melting or low running costs. **The factory setting is 27°F (-3 C°).**

Moisture level

The “moisture level” decides when the system detects moisture.

The factory setting is 50 (on a scale from 5 to 95).

The lower the setting, the more sensitive the system is to moisture.

Post-heat

Once the sensor has detected that the roof/gutter is dry and free of ice and snow the system will keep heating for another hour (default). If you wish to increase/decrease this time see capital A: Installer menu.

The factory setting is 1 hour (on a scale from 0 to 9 hours)

Priority

When using the GX™ 850 as a dual or combi system, it is possible to prioritize the systems. When the priority of 2 systems is equal, both systems can heat at the same time. If the priority of the 2 systems differs, and both systems want to heat, only the system with the highest priority is allowed to heat.

The factory setting is 1 (highest priority) for all systems.

Clogged drain

It is possible to enable and disable the “Clogged drain warning”.

The factory setting is “Warning On”.

System and sensor name

It is possible to change the names of the system and connected sensors.

Setup Instructions

System overview

The GX™ 850 can handle up to 2 independent areas, in any of the following combinations:

- **Single roof system**
(1 system, 1-4 roof sensors)
- **Single ground system**
(1 system, 1-4 roof sensors)
- **1 ground system and 1 roof system** (combi system)
(2 systems, 2-4 sensors total, minimum 1 sensor per system)
- **2 roof systems** (dual system)
(2 systems, 2-4 sensors total, minimum 1 sensor per system)
- **2 ground systems** (dual system)
(2 systems, 2-4 sensors total, minimum 1 sensor per system)

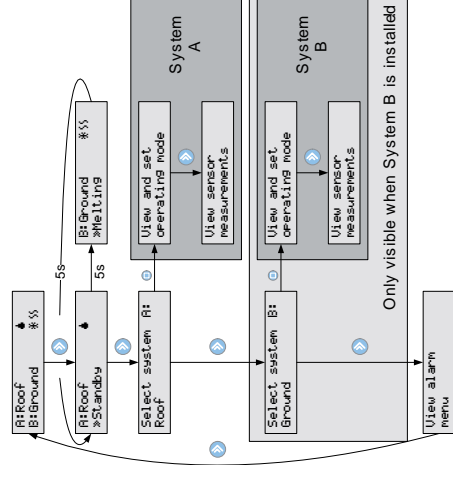
Zone A is used for single system. When two zones are utilized, Zone A is always the priority.

A typical ice and snow melting system consists of:

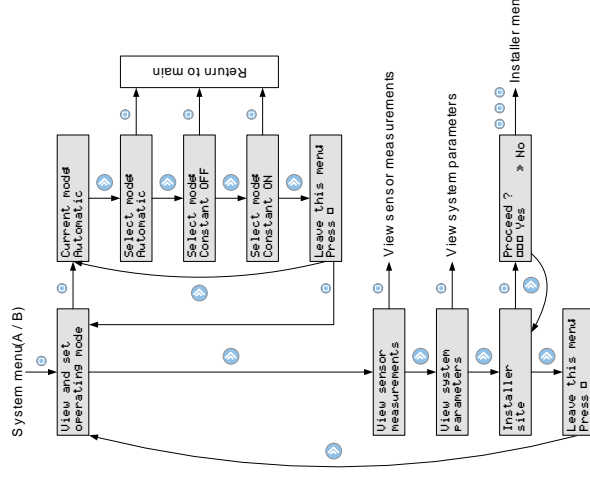
- **GX™ 850**
 - Only 1 GX™ 850 is allowed on the Devibus™
- **Power supply**
 - More power supplies can be connected in parallel (if needed)
 - Be aware of maximum number of sensors on each power supply
(Refer to Technical Specification for power demand of sensors)
- **Ground and/or roof sensor(s)**
 - Be aware of maximum number and cable length of sensors on each power supply
(Refer to sensor manual for a more detailed description)

Appendix A: Menu system

Main menu



System menu



Factory settings (Roof system)

Function	Factory settings	Range/Options
Moisture level	50	5 to 95 (5 being the most sensitive to moisture)
Melting temperature	35°F (1.5°C)	32°F (0°C) to 50°F (10°C)
Post-heat	1 hour	0 to 9 hours
Clogged drain	On	On/off
System mode	Automatic	<ul style="list-style-type: none"> • Automatic • Constant ON (manual timer) • Manually OFF


Factory settings (Ground system)

Function	Factory settings	Range/Options
Moisture level	50	5 to 95 (5 being the most sensitive to moisture)
Standby temperature	27°F (-3.0°C)	-4°F (-20°C) to 32°F (0°C)
Melting temperature	39°F (4.0°C)	34°F (1°C) to 50°F (10°C)
Post-heat	1 hour	0 to 9 hours
Clogged drain	On	On/off
System mode	Automatic	<ul style="list-style-type: none"> • Automatic • Constant ON (manual timer) • Manually OFF

Initial Setup

The installation of the GX™ 850 is very easy, and the user is guided through the installation process. The installation process differs a little depending on which kind and the number of systems to be installed.

Please follow the general description and finally select the installation scenario according to the system type.

Change setting with key: 

Accept setting with key: 

General

 Power on GX™ 850

 Select language

System is being checked...

 Select system configuration

- **Roof system** (1 system)
- **Ground system** (1 system)
- **Combi system** (2 systems)
- **Dual system** (2 systems)

The rest of the installation is divided into the system configurations; roof, ground, combi or dual, as listed above.

Welcome to
GX 850 III

Select language:
English

Checking system
←→

System size:
1 system

Setup of roof system

The installation of a GX™ 850 with 1 roof system has been selected.

It is optional if the sensors are connected to the GX™ 850 before power on or during the installation.



The system uses the output **System A**.

If sensors for System A are not connected - do it now!

Press or wait...

System is being scanned to find type of connected sensors...



Select system type: Roof



Wait until correct number of sensors for **System A** is found.

Press when all sensors are found...

System A is installed...

System is being checked...



Press to configure **System A**.
(Naming sensors and changing factory settings)

Please refer to "Changing parameters and performance of systems" in "User Manual" for description of the configurable parameters.

If for some reason you do not wish to configure the system now you can press to skip configuration of system.



Press to end configuration.

Connect sensors:
System A

System A
Scanning...

System type:
Roof

1 Roof sensor
found. Accept?

System A!
Installed

Checking system
←→

Config system:
System A

Press to end
configuration.



Technical data



Voltage: • GX™ 850 • Power supply	18-26 VDC 180-250 VAC, 50/60 Hz
Power consumption: • GX™ 850 • Roof sensor(s) • Ground sensor(s)	Max. 3 W Max. 8W (each) Max. 13W (each) * *
Relay load capability: • Resistive load Alarm relay • Resistive load System A relay • Resistive load System B relay • Inductive load each relay	230V ~ 2A 230V ~ 15A 230V ~ 15A 1A (power factor 0.3)
Nema rating: • GX™ 850 • Roof sensor(s) • Ground sensor(s)	NEMA1 NEMA6 NEMA6 * *
Ambient temperature: • GX™ 850 • Roof sensor(s) • Ground sensor(s)	14°F (-10°C) to 104°F (+40°C) -58°F (-50°C) to 158°F (+70°C) -22°F (-30°C) to 158°F (+70°C) * *
Sensor type:	Devibus™ connected moisture sensor(s)
Indication:	2 x 16-character illuminated display Alarm light (red) Lit: info key (yellow)
Measurements: • GX™ 850 • Roof sensor(s) • Ground sensor(s) • Tube ground sensor(s)	(Depth x Height x Width) 2.09" (53 mm) x 3.39" (86 mm) x 4.13" (105 mm) 0.6" (15 mm) x 0.93" (23.5 mm) x 8.5" (216 mm) D = 3.4" (23.5 mm); height = 2.9" (74 mm) D = 3.66" (93 mm); height = 3.86" (98 mm) *
Type: • GX™ 850	D850 DP-10

* For further information on the sensors please refer to the sensor manual.

Add an extra sensor:

From the **installer menu** select **Change system**. The system is searching for connected sensors.

- Press  to loop through the found new sensors or to cancel add sensor.
- Press  when the correct new sensor to add is found or "Cancel add sensor?" is selected.
- If the user selected a new sensor to add, the sensor is added.

Checking system
 

Add sensor:
 ID: 03ABC1

Cancel add sensor?

Sensor added!

Setup of ground system

The installation of a GX™ 850 with 1 ground system has been selected.

It is optional if the sensors are connected to the GX™ 850 before power on or during the installation.

 The system uses the output **System A**.

If sensors for **System A** are not connected - do it now!
 Press  or wait...

System is being scanned to find type of connected sensors...

 Select system type: Ground

 Wait until correct number of sensors for **System A** is found.

Press  when all sensors are found... **System A** is installed...

System is being checked...

 Press  to configure **System A**. (Naming sensors and changing factory settings)

Please refer to "Changing parameters and performance of systems" in "User Manual" for description of the configurable parameters.

If for some reason you do not wish to configure the

system now you can press  to skip configuration of the system.

 Press  to end configuration.

Connect sensors:
 System A

System A
 Scanning...

System type:
 Ground

3 Ground sensor
 found. Accept?

System A!
 Installed

Checking system
 

Config system:
 System A

Press  to end configuration.

Setup of combination system

The installation of a GX™ 850 with 1 roof system and 1 ground system has been selected.

It is optional if the sensors are connected to the GX™ 850 before power on or during the installation.

- ⚠ The first installed system (**System A**) is using the output **System A**.
The second installed system (**System B**) is using the output **System B**.

It is freely selectable if System A should be the roof or ground system. However it is preferable that System A is the roof system, since System A is shown on the upper line of the display. Please refer to the description of the Display and Combined view in the user manual.

If sensors for **System A** are not connected - do it now!

Press or wait...

System is being scanned to find type of connected sensors...

Select system type: Roof
(if roof system is preferred as **System A**)

Wait until correct number of sensors for **System A** is found.

Press when all sensors are found...
System A is installed...

If sensors for **System B** are not connected - do it now!

Press or wait...

System is being scanned to find type of connected sensors...

Select system type: Ground
(if ground system is preferred as **System B**)

Connect sensors:
System A

System A
Scanning...

System type:
Roof

1 Roof sensor
found. Accept?

System A!
Installed

Connect sensors:
System B

System B
Scanning...

System type:
Ground

Replace a malfunctioning sensor:

From the installer menu select **Change system**.
The system is searching for connected sensors.

The user selects the passive sensor, which should be replaced with a new one.



Press to loop through the found passive sensors or to cancel replace sensor.



Press when the correct passive sensor or "Cancel replace sensor?" is selected.

If the user selected a passive sensor to replace, the user should now select the new sensor.



Press to loop through the found new sensors or to cancel replace sensor.



Press when the correct new sensor to add is found or "Cancel replace sensor?" is selected.

If the user selected a new sensor to add, the replacing of the sensors is performed.

Checking system
← →

Replace sensor:
Sensor1 03FB2F

Replace sensor:
Sensor2 03FC24

Cancel replace
sensor?

Add sensor:
ID: 03ABC1

Add sensor:
ID: 03DEF1

Cancel replace
sensor?

Sensor replaced!

Modification of system(s)

It is possible to modify the installed systems on the GX™ 850. The following modifications are possible:

- **Reactivate passive sensors**
- **Replace a malfunctioning sensor**
- **Add an extra sensor**

When the GX™ 850 cannot communicate with a sensor, the GX™ 850 reports the error: "Errors detected!". The GX™ 850 does not rely on malfunctioning sensors, and therefore the GX™ 850 makes the sensor passive. The passive sensor is no longer used for ice and snow detection - not even after a power cycle.



If the malfunctioning is caused by problems with the wiring, the failure can be fixed, and the sensor can be reactivated.



If the malfunctioning is caused by an error prone sensor, the error can be corrected by replacing the error prone sensor with a new sensor.



It is not possible to delete a passive sensor in a system. Passive sensors will remain in the systems until they are replaced with new sensors. The only way to delete a passive sensor (other than replacing it), is to make a **Master Reset** and reinstall the GX™ 850 (please refer to chapter: General use).

Reactivate passive sensors:

The given example is for a ground system.



From the **installer menu** select **Change system**.



Press **Change system**.

Change system

The system is searching for connected sensors.

Checking system



If any passive sensors are found, they are reactivated. Message is shown for 3 seconds.

1 sensor(s)
reactivated!

If no new sensors are found, it is reported to the user. Message is shown for 3 seconds.

No ground
sensors found!

Wait until correct number of sensors for **System B** is found.

Press when all sensors for **System B** are found... **System B** is installed...

System is being checked...



Press to select system to configure.

Press to configure selected system. (Naming sensors, changing factory settings and setting priorities)

Please refer to "Changing parameters and performance of systems" in "User Manual" for description of the configurable parameters.



Press to end configuration.

Press to end Configuration.

3 Ground sensors found. Accept?

System B Installed!

Checking system
<----->

Config system:
System A

Config system:
System B

Setup of dual zone system


The installation of a GX™ 850 with 2 roof systems or 2 ground systems has been selected.

It is **mandatory** that no sensors or only sensors for **System A** are connected to the the GX™ 850 before power up. Sensors for **System B** must be connected to the GX™ 850 during the installation steps. Connection of the sensors during installation can either be done using a switch on the DIN-rail or just connect sensor bus of **System B** to the already connected sensor bus of **System A**.

-  The first installed system (**System A**) is using the output **System A**. The second installed system (**System B**) is using the output **System B**.

If sensors for **System A** are not connected - do it now!
Press  or wait...

System is being scanned to find type of connected sensors...

 Select system type


 Wait until correct number of sensors for **System A** is found.

Press  when all sensors for **System A** are found... **System A** is installed...

Connect sensors for **System B**.

Press  or wait...

System is being scanned to find type of connected sensors...

 Select system type

 Wait until correct number of sensors for **System B** is found.

Press  when all sensors for **System B** are found... **System B** is installed...

System is being checked...

 Press  to select system to configure.

Press  to configure selected system. (Naming sensors, changing factory settings and setting priorities)

Please refer to "Changing parameters and performance of systems" in "User Manual" for description of the configurable parameters.

 Press  to end configuration.

1 Ground sensor found. Accept?

System B Installed!

Checking system
<----->

Config system: System A

Config system: System B

Press  to end Configuration.

Connect sensors: System A

System A Scanning...

System type: Ground

1 Ground sensor found. Accept?

System A Installed!

Connect sensors: System B

System B Scanning...

System type: Ground