MULTIREG ICECONTROL PRO

Firmware 1.10
01.01.2020

Version 2025-F (01.11.25)

Installation guide

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Accessories for automatic snow melting
MODBUS 485

1. INTRODUCTION

Multireg IceControl Pro is a control unit for up to two heating zones. It is designed to melt snow and ice on the ground, in stairs and on roofs and in gutters. You can control the heating in the ground and the heating cables in the gutter with one and the same system. If you are going to have two zones with ground heating, you must also have two ground sensors.

Multireg IceControl Pro is compatible with several types of ground and air sensors. The controller is used for electric heating systems. It is equipped with a simple and user-friendly menu. Read the installation instructions carefully before starting up.

2. ABOUT AUTOMATIC SNOW MELTING

With automatic snow melting, you keep it dry and ice-free throughout the winter. This contributes to both increased safety against falls and accidents when it is slippery, as well as saving work with shoveling, spreading and salting. Ground sensors can be installed in places where snow and ice problems normally occur, which gives you functional and energy-saving control of the heating cables. The sensors can be installed in concrete or asphalt, or placed under paving stones and tiles, in addition to the roof/gutter. There are also precipitation sensors for wall mounting where you cannot place the sensor in the ground.

Whether it is ice or snow on stairs, in the entrance or driveway that is the problem, a thermostat can be used to regulate the system. The thermostat receives information about temperature and humidity from a sensor, and it knows itself if there is rain or snow, and the risk of ice formation. Based on system settings and your wishes, it will ensure ice-free access to, for example, the mailbox or garage.

A pre-programmed installation procedure guides you through the setup, helping you make the choices that suit your needs. Based on your choices, the snow melt thermostat suggests the optimal settings for your configuration.

3. INSTALLATION GUIDELINES

The power supply must always be disconnected before installation or maintenance work on the control unit or on components connected to it. This control unit or components connected to it must only be installed by a registered installation company. The product must be installed and documented in accordance with the current edition of NEK 400 and the installation instructions.

How to install Multireg IceControl Pro

1. Use a flat object (e.g. a flat-head screwdriver) to bend the trigger on the DIN rail.
2. Place the top of the Multireg IceControl Pro mounting slot over the top of the DIN rail.
3. Bend the Multireg IceControl Pro towards the DIN rail until the bottom clicks into place.

Make all necessary connections to the device, and reconnect the power once all connections are made.

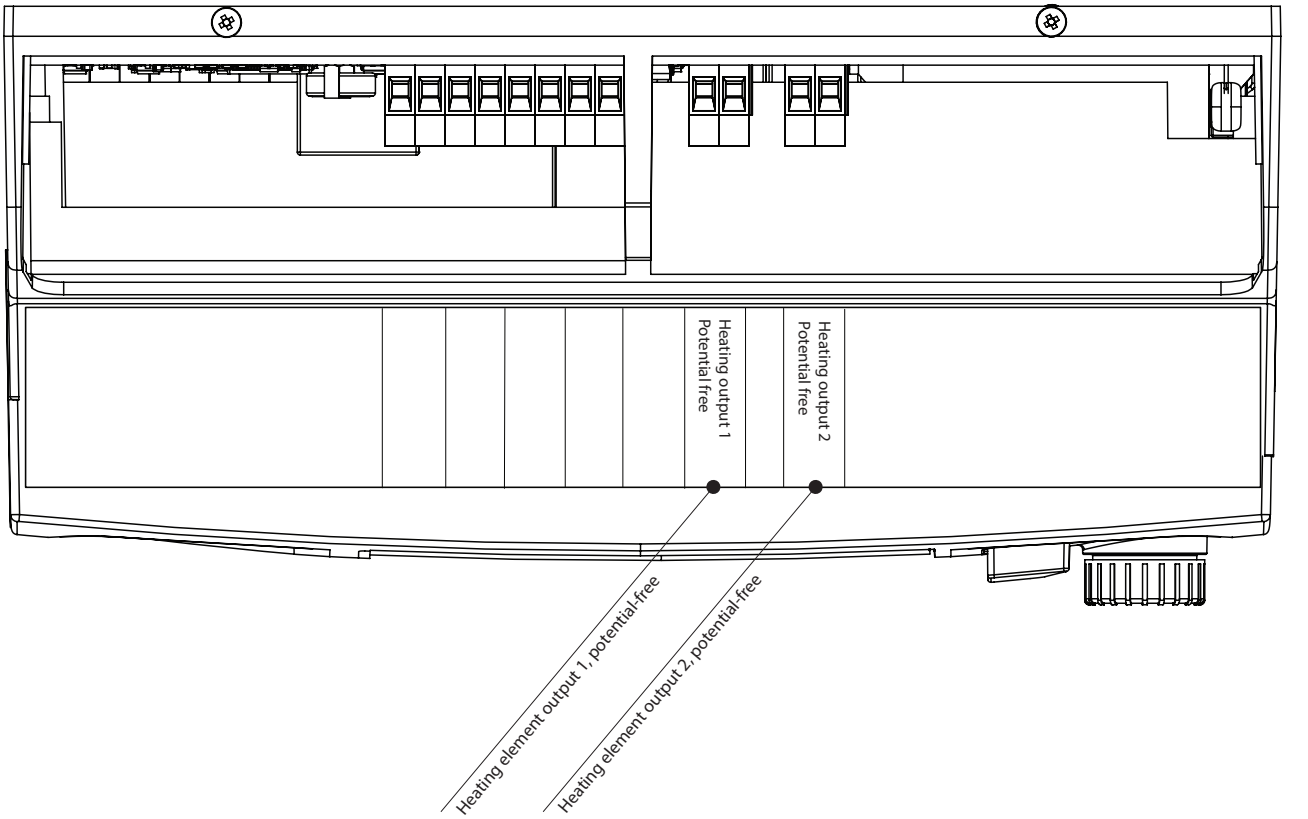
PREPARATION AND CONNECTION OF CABLES

Before connecting, the cables must be stripped of approx. 6mm. Be careful not to damage the conductors. Tighten the cables with a torque of 0.5 Nm. The cable size should be between 12 and 30 AWG.

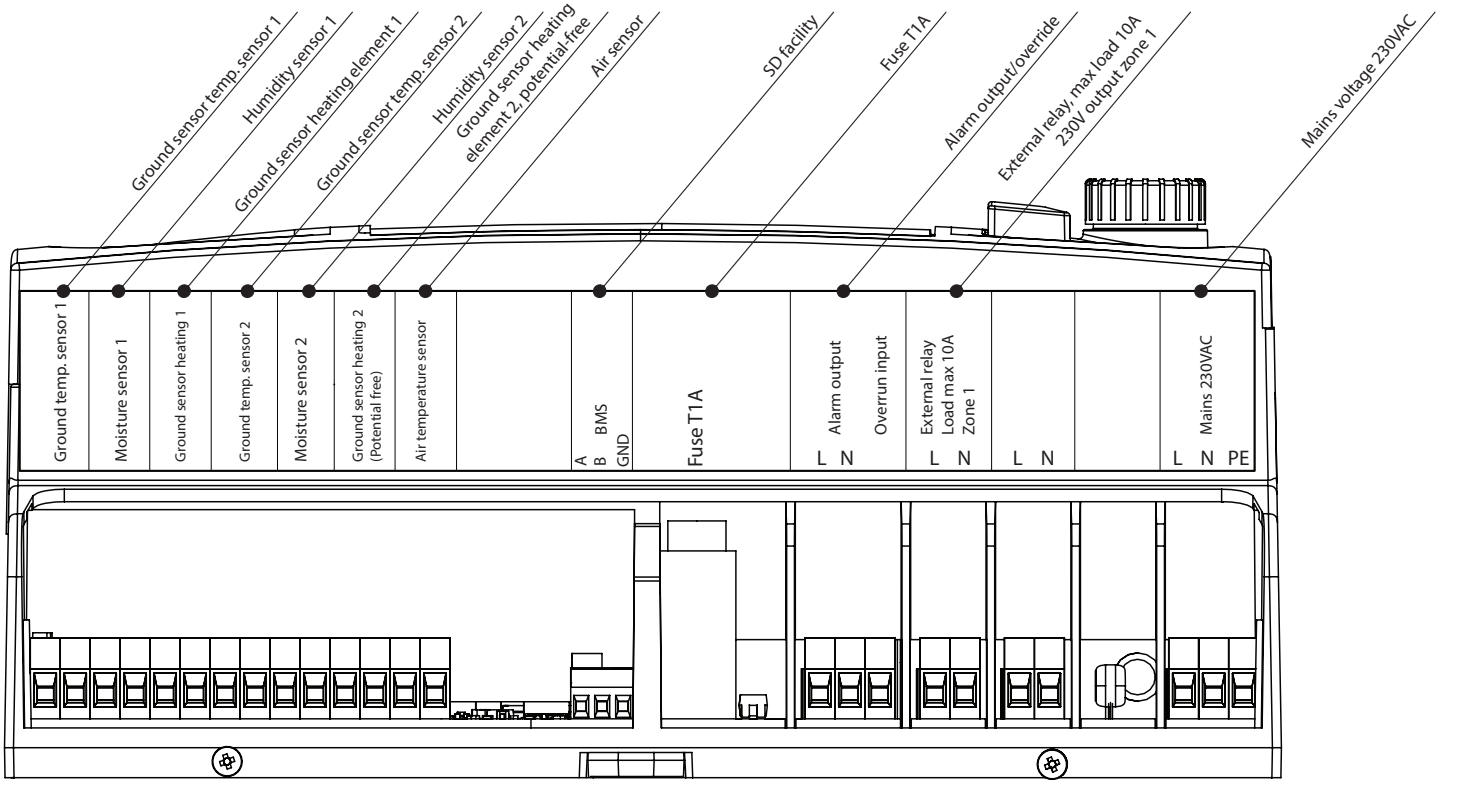
4. CONNECTION DIAGRAMS

4.1 OVERVIEW CONNECTION MULTIREG ICECONTROL PRO

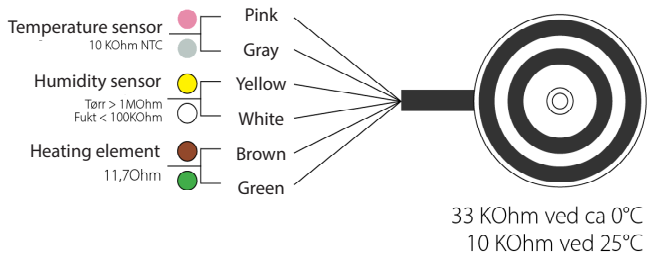
VIEW FROM THE TOP



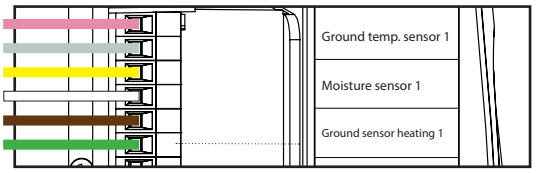
VIEW FROM THE BOTTOM



4. 2 CONNECTION DIAGRAM ICECONTROL

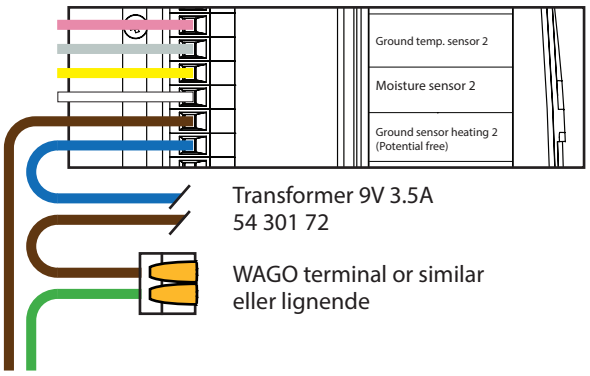


Detailed overview IceControl: connection zone 1

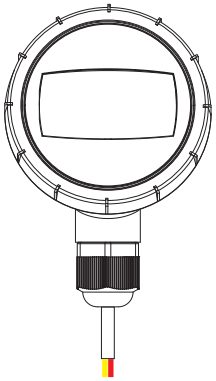


Detailed overview IceControl: connection zone 2

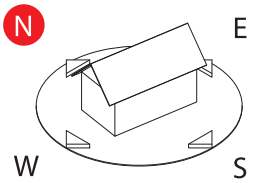
Connection of the sensor in zone 2 is only potential-free.
Operating voltage for ground sensor in zone 2 therefore requires a 9V transformer (Electrical no. 54 301 72). Operating voltage is then connected for "Ground sensor heating 2."



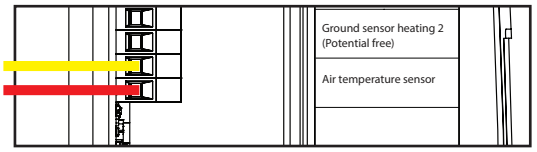
4. 3 CONNECTION DIAGRAM ICECONTROL AIR SENSOR TF AIS



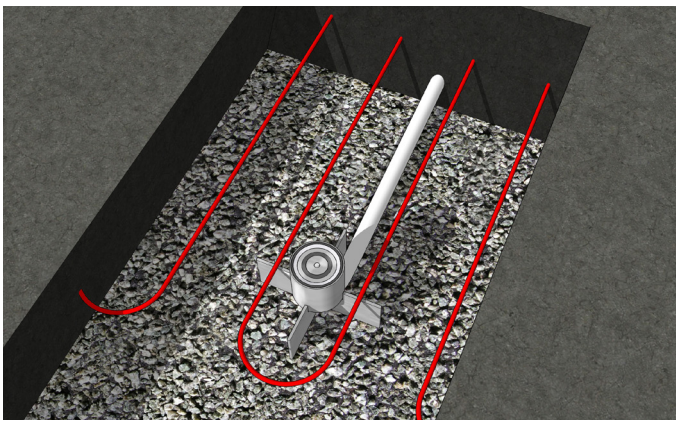
Sensor is mounted on the north wall / shady side



Connection details overview



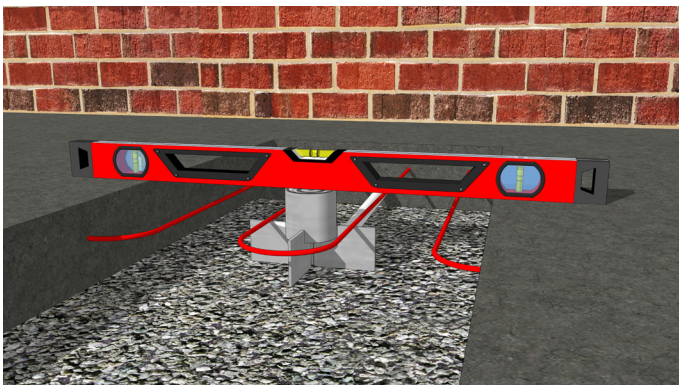
4.4 GROUND SENSOR LOCATION



Join the two parts of the mounting cross together. Place the cross in the heated zone between two loops as shown in the illustration. The top of the ground sensor should, when the cover is in place, be flush with the ground.

Add a minimum of 20mm of pull pipe to the mounting junction so that the sensor can be pulled in after the asphalt/paving stones etc. are in place. This also makes any replacement of the ground sensor easier.

Make sure that the chosen location of the ground sensor is exposed to precipitation and provides an accurate picture of the snow and ice problem on the entire area to be heated.



5. FIRST TIME STARTUP/RESTART

Multireg IceControl Pro is equipped with three control buttons to the right of the display on the front of the unit. The wheel is turned to scroll through the menu and pressed in. Selecting ESC returns you to the previous selection, while the "home" button takes you back to the main screen on the display which shows the status of the selections made.

Home button

- Select language. Turn the wheel until the desired language is highlighted. Press the wheel in to acknowledge.
- Select time format. 24 is recommended.
- Select date and time. The order is year - month - day - time.
- Choose between Celsius and Fahrenheit.
- Choose between electric heating.

- Prioritizing zones – select "all zones" if the zones should defrost simultaneously.
- Sensor 1 – enter the type of sensor connected as sensor 1. Optionally "none" if not connected (Zone 1).
- Sensor 2 – enter the type of sensor connected as sensor 2. Optionally "none" if not connected (Zone 2).
- Sensor 3 air – "TF AIS" or "user defined" if the air sensor is of a different type.
- Set heating in zone 1 - select "heat on" if heating connected to zone 1 should be active.
- Set heating in zone 2 - select "heat on" if heating connected to zone 2 should be active.

NB! If you select "heating off", the system will not turn on even if the sensors are activated.

The system should always be connected to an external air sensor to ensure that no one connects the system when the air temperature is higher than the selected working range.

Activation of sensors in zone 1 gives a 230V signal on output "External relay, Load max 10A" or "Heating output 1" (potential-free). Activation of sensors in zone 2 gives a signal on "Heating output 2" (potential-free)

6. MENU

For main menu press "OK" button

Thermostat status

Here you go in and turn the thermostat on or off.

Weekly programming

Here you can go in and select the start and end time for defrosting for each day of the week. Always check that the clock in the display shows the correct time. If there are days during the week that you do not want defrosting (e.g. weekend), select the same time for start and end. Remember that defrosting must start well in advance before you can expect a snow- and ice-free area. With 300W per m^2 and freezing temperatures on the ground, we estimate that the ground temperature will increase by approx. 1 degree per hour.

Settings

Under settings you can go in and change or check the status of the choices you made at startup.

7. ADVANCED SETTINGS

Changing details on zones and sensors.

7.1 GROUND SENSOR 1

Setpoint high:
Selected maximum temperature for ground heating during operation. Default +2°C (hysteresis 0.5°C). This is also the temperature of the heating element in the sensor during standby.

Setpoint heating:
Selected temperature the system works towards at the start of a snowfall. Default value is 5°C. When this temperature is reached, the system regulates at "setpoint high" during the operating period.

Humidity:
Measurement of precipitation on the sensor.

Sensitivity:
Sensitivity of moisture measurement. 6 levels. Standard 6. Here the system is calibrated based on how it is experienced.

Heat in sensor:
Heating element in sensor. Default is on. This must be on if the sensor is used to register precipitation. If the sensor is to be used only as a temperature sensor, turn off "heat in sensor" and "humidity".

GROUND SENSOR 2 AS GROUND SENSOR 1.

7.2 ICECONTROL AIR SENSOR TF AIS

Setpoint high: Upper limit for the air sensor's working range, max. 30°C. Default +3.0°C.
Setpoint low: Lower limit of the air sensor's working range, min. -30°C. Default -12°.

7.3 ICECONTROL GUTTER SENSOR TF TS2

Can only be connected to zone 2 using: IceControl transformer 9V Electrical no. 54 301 72 and IceControl air sensor TF AIS. Art No. 54 301 76.

See separate connection diagram 8.1

Setpoint high:	Do not adjust. (Not relevant for this product).
Heating setpoint:	Do not adjust.
Humidity:	Measurement of ice formation/humidity on the sensor.
Sensitivity:	Sensitivity of moisture measurement. 6 levels. Standard 4. Here the system can be calibrated based on experience at the individual system.
Heat in sensor:	Heating element in sensor. This must be on if the sensor is used to detect ice formation/moisture.

7.4 ICECONTROL RAIN AND SNOW SENSOR

(Wall-mounted precipitation sensor). Only in combination with IceControl air sensor TF AIS
* Own connection diagram 8.2*

Setpoint high:	Do not adjust. (Not relevant for this product).
Heating setpoint:	Do not adjust.
Humidity:	Measurement of precipitation on the sensor.
Sensitivity:	Sensitivity of moisture measurement. 6 levels. Standard 4. Here the system can be calibrated based on experience at the individual system.
Sensor heating:	Heating element in sensor. This must be on if the sensor is used to detect precipitation.

7.5 OTHER POINTS ADVANCED SETTINGS

Defrost zone 1 / Defrost zone 2

Here you can set the time that the system should be switched on after the sensor is dry. The system will then regulate to the temperature selected under "setpoint high", ground sensor. The optimal time for defrosting can vary depending on the region and area of use, so here you can find the setting that best suits your needs. The standard is 4 hours for IceControl ground sensor TF GS and IceControl gutter sensor TF TS2. The IceControl rain and snow sensor (wall-mounted) works according to its own logic in relation to precipitation and temperature.

Temperature calibration (ground sensors and TF AIS only)

Calibration of the temperature shown on the display, against the actual temperature. Measure the temperature with an infrared thermometer directly on the sensor, and correct up or down. Be aware of external influences such as sunlight or strong cooling. Press ok to read the measured temperature.

Set high and low temperature

Working range for Multireg IceControl Pro. Standard +10°C to -20°C. Can be used to limit unnecessary defrosting at high or low temperatures.

Consumption

Enter the power per heating zone. The system will then indicate consumption in kWh on the display. The consumption indicated is total consumption from start-up. This can only be reset by running factory settings.

Heating on (forced)

Forced heating. Heating will then be within what is selected as "after-defrost" under advanced settings. It then regulates at "setpoint high".

Restore factory settings

Code 2816.

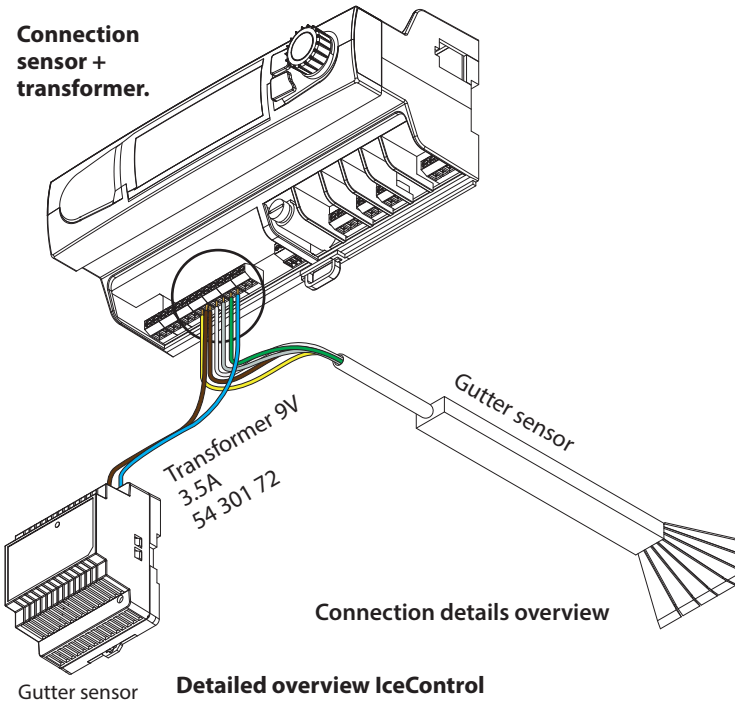
7.6 SYSTEM INFORMATION

Quick overview of what information has been entered.

8. CONNECTING OTHER SENSORS

8.1 CONNECTION DIAGRAM ICECONTROL GUTTER SENSOR TF TS2 (ZONE 2 ONLY)

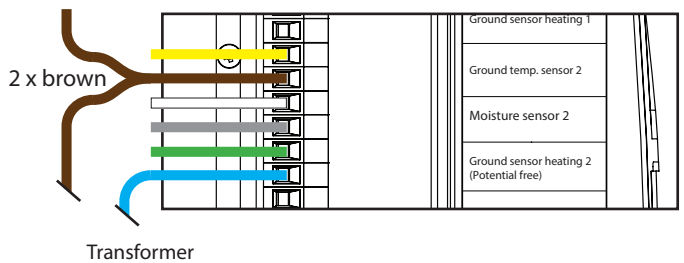
Connection sensor + transformer.



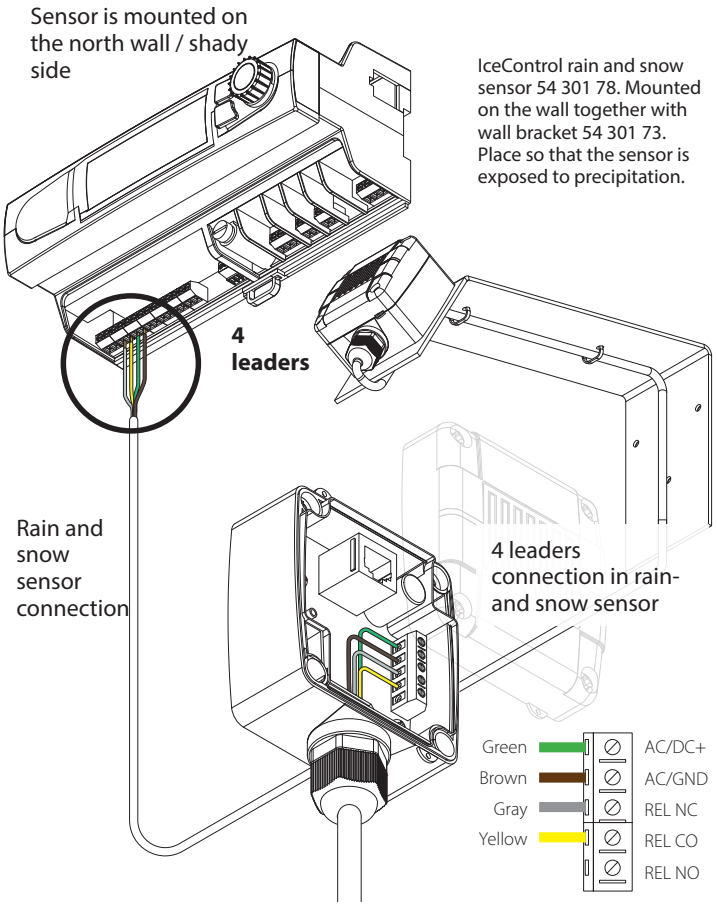
Connection details overview

Gutter sensor

Detailed overview IceControl

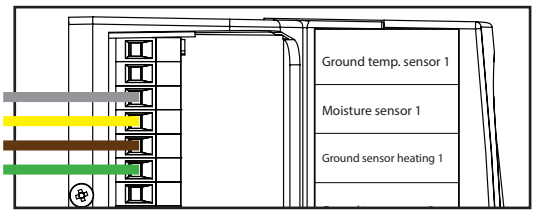


8.2 CONNECTION DIAGRAM WALL-MOUNTED ICECONTROL RAIN AND SNOW SENSOR

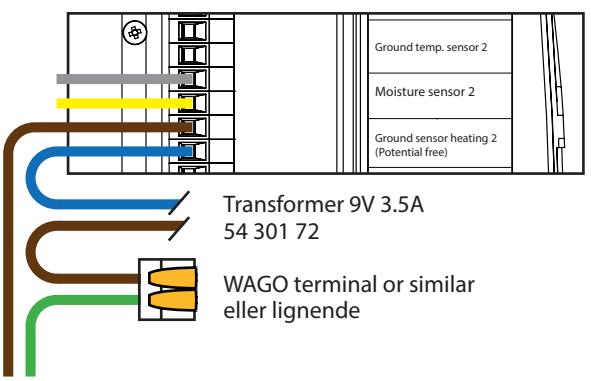


Connection of sensor on zone 2 is only potential-free. Connection of sensor with heating element on zone 2 therefore requires a 9V transformer (Art no. 54 301 72).

Detailed overview IceControl



Detailed overview IceControl: connection zone 2



MULTIREG

PRODUCT INFO Multireg IceControl Pro

FEATURES

- Automatic snow melting
- Controls electric heat
- Two outputs controlling two independent zones
- Ground sensor
- Gutter sensor
- External air sensor
- Rain and snow sensor
- External override input
- Output for external error notification
- MODBUS 485

TECHNICAL DATA

Voltage	230VAC
Own consumption	Max 10Va
Contacts	2 x 16A - potential-free
Relay	1 x 10A - for direct connection
Size (LxWxH)	213 x 93 x 100mm 100mm
Height:	100mm

Check depth in cabinet and adjust DIN rail if necessary.

DIN-rail	13 module – DIN rail
IP Code	IP20

Certification CE

EN 60730-1, EN 60730-2-9, EMC 2014/30/EU, RoHS 2011/65/EU
LVD 2014/35/EU

MAINTENANCE

The product does not require maintenance,
but it must never be covered.

ART NO.	PRODUCT
54 301 77	Multireg IceControl Pro snow melting automatic system
54 301 71	IceControl mounting cross for ground sensor
54 304 57	Heatit DIN Transformer 24V
54 301 73	IceControl bracket for rain and snow sensor
54 301 74	IceControl gutter sensor TF TS2
54 301 75	IceControl ground sensor TF GS
54 301 76	IceControl air sensor TF AIS
54 301 78	IceControl rain and snow sensor

Multireg IceControl Pro must always be installed together with a outdoor air sensor.

ART NO.	PRODUCT
54 301 99	COMPLETE PACKAGE MULTIREG ICECONTROL PRO
	Multireg IceControl Pro snow melting automatic system
	IcdeControl mounting cross for ground sensor
	IceControl ground sensor TG GS
	IceControl air sensor TF AIS

ACCESSORIES FOR MULTIREG ICECONTROL PRO

54 301 71

ICECONTROL MOUNTING CROSS FOR GROUND SENSOR

54 304 57

HEATIT DIN TRANSFORMER 24V

ICECONTROL BRACKET FOR RAIN AND SNOW SENSOR

54 301 74

ICECONTROL GUTTER SENSOR TF TS2

54 301 75

ICECONTROL GROUND SENSOR TF GS

54 301 76

ICECONTROL AIR SENSOR TF AIS

54 301 78

ICECONTROL RAIN AND SNOW SENSOR

heatit

Only 1 x Multireg IceControl Pro in one Modbus installation.

Default values for Modbus are:
Modbus ID: 1
Baud rate: 38,400
Data bits: 8
Parity: None
Stop bits: 1

MODBUS 485								
3	1	119	1	1	P_Status_Heat1	Ice zone 1 heating	3x1	Ice zone 1 heating
3	2	120	1	1	P_Status_Heat2	Ice zone 2 heating	3x2	Ice zone 2 heating
3	3	121	3	1	P_Status_Afterrun1	Zone 1 afterrun time left	3x3	Zone 1 afterrun time left
3	4	122	3	1	P_Status_Afterrun2	Zone 2 afterrun time left	3x4	Zone 2 afterrun time left
3	5	106	5	2	P_RuntimeZone1	Heating time Zone 1 [h]	3x5 - 6	Heating time Zone 1 [h]
3	7	107	5	2	P_RuntimeZone2	Heating time Zone 2 [h]	3x7 - 8	Heating time Zone 2 [h]
3	9	108	5	2	P_TotalEnergyZone1	Total energy Zone 1 [kWh]	3x9 - 10	Total energy Zone 1 [kWh]
3	11	109	5	2	P_TotalEnergyZone2	Total energy Zone 2 [kWh]	3x11 - 12	Total energy Zone 2 [kWh]
3	13	123	3	1	P_ActiveAlarms	Currently active alarms	3x13	Currently active alarms
3	14	124	3	1	P_Alarms	Active alarms, bit mask. Write 1 to corresponding bit to clear	3x14	Active alarms, bit mask. Write 1 to corresponding bit to clear
3	100	124	3	1	P_Alarms	Active alarms, bit mask. Write 1 to corresponding bit to clear	3x100	Active alarms, bit mask. Write 1 to corresponding bit to clear
3	101	125	8	48	P_AlarmInfo	Alarm date, time and count	3x101 - 148	Alarm date, time and count
3	12345	178	3	1	P_UpTime_seconds	Uptime seconds, 0-59	3x12345	Uptime seconds, 0-59
3	12346	179	3	1	P_UpTime_minutes	Uptime minutes, 0-59	3x12346	Uptime minutes, 0-59
3	12347	180	3	1	P_UpTime_hours	Uptime hours, 0-8759	3x12347	Uptime hours, 0-8759
3	12348	181	3	1	P_UpTime_years	Uptime years	3x12348	Uptime years
3	30001	126	1	1	P_Status_WtTempBlock	Is outside valid weekday temp?	3x30001	Is outside valid weekday temp?
3	30002	127	1	1	P_Status_TempBlock	Is outside valid temp and sensor conn?	3x30002	Is outside valid temp and sensor conn?
3	30003	128	0	1	P_Status_Heat1Reason	Heat 1 reason (on or off)	3x30003	Heat 1 reason (on or off)
3	30004	129	0	1	P_Status_Heat2Reason	Heat 2 reasons (on or off)	3x30004	Heat 2 reasons (on or off)
3	30005	130	3	1	P_Status_Sensor1HeatOffTime	Sensor 1 heat off time	3x30005	Sensor 1 heat off time
3	30006	131	3	1	P_Status_Sensor1HeatOnTime	Sensor 1 heat on time	3x30006	Sensor 1 heat on time
3	30007	132	3	1	P_Status_Sensor2HeatOffTime	Sensor 2 heat off time	3x30007	Sensor 2 heat off time
3	30008	133	3	1	P_Status_Sensor2HeatOnTime	Sensor 2 heat on time	3x30008	Sensor 2 heat on time
3	30009	134	0	1	P_Status_Zone1GroundTempStatus	GroundTemp1, 0 = within limits, 1 = below, 2 = above	3x30009	GroundTemp1, 0 = within limits, 1 = below, 2 = above
3	30010	135	0	1	P_Status_Zone2GroundTempStatus	GroundTemp2, 0 = within limits, 1 = below, 2 = above	3x30010	GroundTemp2, 0 = within limits, 1 = below, 2 = above
3	30011	136	0	1	P_Status_Zone1MoistureStatus	GroundMoist1, -1 = disabled, 0 = dry, 1 = Wet	3x30011	GroundMoist1, -1 = disabled, 0 = dry, 1 = Wet
3	30012	137	0	1	P_Status_Zone2MoistureStatus	GroundMoist2, -1 = disabled, 0 = dry, 1 = Wet	3x30012	GroundMoist2, -1 = disabled, 0 = dry, 1 = Wet
3	50001	182	3	1	P_ComponentId	Component Id = 29	3x50001	Component Id = 29
3	50002	183	6	16	P_ComponentName	Component name	3x50002 - 50017	Component name
3	50020	140	5	2	P_SystemConfig_SerialNumber	Serial Number	3x50020 - 50021	Serial Number
3	50022	184	3	1	P_ParamBinaryHeader_FileVersion	Parameter defaults version	3x50022	Parameter defaults version
3	50101	185	1	1	P_SwVersion_Major	Software version, Major	3x50101	Software version, Major
3	50102	186	1	1	P_SwVersion_Minor	Software version, Minor	3x50102	Software version, Minor
3	50103	187	3	1	P_SwVersion_Build	Software build	3x50103	Software build
3	50104	188	6	46	P_VerInfoData	VerInfo	3x50104 - 50149	VerInfo
3	60002	157	7	9	P_Inputs_AD	X21 X22 X23 X24 X15 X17 X19 X4 X5	3x60002 - 60010	X21 X22 X23 X24 X15 X17 X19 X4 X5
3	60011	158	1	1	P_Inputs_Btn_Ok	OK button	3x60011	OK button
3	60012	159	1	1	P_Inputs_Btn_Rv	RV button	3x60012	RV button
3	60013	160	1	1	P_Inputs_Btn_Esc	Esc button	3x60013	Esc button
3	60014	161	2	1	P_Inputs_GroundSensor1	Ground sensor 1 (X21)	3x60014	Ground sensor 1 (X21)
3	60015	162	2	1	P_Inputs_GroundSensor2	Ground sensor 2 (X22)	3x60015	Ground sensor 2 (X22)
3	60016	163	2	1	P_Inputs_GroundSensor3	Ground sensor 3 (X23)	3x60016	Ground sensor 3 (X23)
3	60017	164	2	1	P_Inputs_GroundSensor4	Ground sensor 4 (X24)	3x60017	Ground sensor 4 (X24)
3	60018	165	2	1	P_Inputs_WaterSecSupply	Water temperature in (X15)	3x60018	Water temperature in (X15)
3	60019	166	2	1	P_Inputs_WaterPriReturn	Water temperature out (X17)	3x60019	Water temperature out (X17)
3	60020	167	2	1	P_Inputs_AirTemp	Air temperature (X19)	3x60020	Air temperature (X19)
3	60021	168	2	1	P_Inputs_RainSensor1	Rain sensor 1 (X4)	3x60021	Rain sensor 1 (X4)

3	60022	169	2	1	P_Inputs_RainSensor2	Rain sensor 2 (X5)	3x60022	Rain sensor 2 (X5)
3	60023	170	1	1	P_Inputs_Opto	Opto input (X12)	3x60023	Opto input (X12)
3	60024	171	5	2	P_Hw_Encoder	Encoder cumulative position	3x60024 - 60025	Encoder cumulative position
3	60026	172	5	2	P_Spi_InstalledFlash	Installed SPI Flash memory size in bytes	3x60026 - 60027	Installed SPI Flash memory size in bytes
3	60028	205	7	4	P_Inputs_CalAD	Calibrated X21 X22 X23 X24	3x60028 - 60031	Calibrated X21 X22 X23 X24
4	14	124	3	1	P_Alarms	Active alarms, bit mask. Write 1 to corresponding bit to clear	4x14	Active alarms, bit mask. Write 1 to corresponding bit to clear
4	100	43	3	1	P_WT1_Start	Start time [min]	4x100	Start time [min]
4	200	44	3	1	P_WT1_Stop	Stop time [min]	4x200	Stop time [min]
4	11001	177	8	6	P_CurrentTime	Real-time clock	4x11001 - 11006	Real-time clock
4	20000	176	8	1999	P_ParamDirectAccess	Access parameters one by one	4x20000 - 21998	Access parameters one by one
4	35001	174	8	250	P_ParamAccess	Param access functions	4x35001 - 35250	Param access functions
4	36001	175	8	128	P_ParamWithInfo	Access single param with info	4x36001 - 36128	Access single param with info
4	40000	173	8	132	P_FT	File transfer functions	4x40000 - 40131	File transfer functions
4	60001	138	3	1	P_TestMode_Enable	Test mode enabled	4x60001	Test mode enabled
4	60002	139	5	2	P_BUILDFLAGS	Build flags	4x60002 - 60003	Build flags
4	60004	140	5	2	P_SystemConfig_SerialNumber	Serial Number	4x60004 - 60005	Serial Number
4	60008	141	1	1	P_TestMode_Outputs_Backlight	Backlight	4x60008	Backlight
4	60009	142	1	1	P_TestMode_Outputs_SensorHeat1	Heating for sensor 1	4x60009	Heating for sensor 1
4	60010	143	1	1	P_TestMode_Outputs_SensorHeat2	Heating for sensor 2	4x60010	Heating for sensor 2
4	60011	144	1	1	P_TestMode_Outputs_PWM1Out	0-10V output 1	4x60011	0-10V output 1
4	60012	145	1	1	P_TestMode_Outputs_PWM2Out	0-10V output 2	4x60012	0-10V output 2
4	60013	146	1	1	P_TestMode_Outputs_WaterPump	Water pump relay	4x60013	Water pump relay
4	60014	147	1	1	P_TestMode_Outputs_ExtRelay16A	External relay, 16A	4x60014	External relay, 16A
4	60015	148	1	1	P_TestMode_Outputs_Field1_Boiler	Potential free relay 1	4x60015	Potential free relay 1
4	60016	149	1	1	P_TestMode_Outputs_Field2_PriPump	Potential free relay 2	4x60016	Potential free relay 2
4	60017	150	1	1	P_TestMode_Outputs_ExtRelay3A	External relay, 3A	4x60017	External relay, 3A
4	60018	151	1	1	P_TestMode_Outputs_GS1_Sensor	GS1 sensor	4x60018	GS1 sensor
4	60019	152	1	1	P_TestMode_Outputs_GS2_Sensor	GS2 sensor	4x60019	GS2 sensor
4	60020	153	1	1	P_TestMode_Outputs_GS3_Sensor	GS3 sensor	4x60020	GS3 sensor
4	60021	154	1	1	P_TestMode_Outputs_GS4_Sensor	GS4 sensor	4x60021	GS4 sensor
4	60022	155	1	1	P_TestMode_Outputs_Water_Sensor	Water sensors	4x60022	Water sensors
4	60023	156	1	1	P_TestMode_Outputs_Air_Sensor	Air sensor	4x60023	Air sensor
4	60024	189	3	1	P_SystemConfig_GS1_PT1000_LowCal		4x60024	0
4	60025	190	3	1	P_SystemConfig_GS1_PT1000_HighCal		4x60025	0
4	60026	191	3	1	P_SystemConfig_GS1_NTC_LowCal		4x60026	0
4	60027	192	3	1	P_SystemConfig_GS1_NTC_HighCal		4x60027	0
4	60028	193	3	1	P_SystemConfig_GS2_PT1000_LowCal		4x60028	0
4	60029	194	3	1	P_SystemConfig_GS2_PT1000_HighCal		4x60029	0
4	60030	195	3	1	P_SystemConfig_GS2_NTC_LowCal		4x60030	0
4	60031	196	3	1	P_SystemConfig_GS2_NTC_HighCal		4x60031	0
4	60032	197	3	1	P_SystemConfig_GS3_PT1000_LowCal		4x60032	0
4	60033	198	3	1	P_SystemConfig_GS3_PT1000_HighCal		4x60033	0
4	60034	199	3	1	P_SystemConfig_GS3_NTC_LowCal		4x60034	0
4	60035	200	3	1	P_SystemConfig_GS3_NTC_HighCal		4x60035	0
4	60036	201	3	1	P_SystemConfig_GS4_PT1000_LowCal		4x60036	0
4	60037	202	3	1	P_SystemConfig_GS4_PT1000_HighCal		4x60037	0
4	60038	203	3	1	P_SystemConfig_GS4_NTC_LowCal		4x60038	0
4	60039	204	3	1	P_SystemConfig_GS4_NTC_HighCal		4x60039	0

The product must be installed in accordance with the current NEK 400 and installation instructions. The product should only be installed by a registered installation company. Product specifications and prices are subject to change without notice. Heatit Controls AS reserves the right to make corrections to typographical errors, other errors or omissions in our information.

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