Data sheet

Electronic controllers

ECL comfort 210

Remote Control Units ECA 30 / 31 and Application Keys

Description

The ECL Comfort 210 is an electronic weather compensated temperature controller in the ECL Comfort controller family for use in district heating, central heating and cooling systems. Energy savings can be achieved by correct control of the flow temperature in heating and cooling systems. Up to 3 circuits can be controlled. The weather compensation function in the ECL Comfort controllers measures the outdoor temperature and controls the flow temperature to the heating system accordingly. The weather compensated heating system increases the comfort level and saves energy.
The ECL Comfort 210 controller is configured with a selected application by means of an ECL application key.

Features & benefits

- Stand-alone controller for multiple heating and cooling applications with up to 2 circuits + thermostatic function
- Intelligent ECL Application Keys, series A2xx
- 2x 3-point control outputs optimized for actuators
- 8 inputs: 6 Pt 1000, 2 configurable
- 4 relay outputs
- Turn/push dial navigation and large graphical display with backlight
- Data logging readout on display or via USB interface
- Modbus RS485 for short cable distances
- Master/slave option
- Optional ECA 30/31 Remote Control Unit

Applications

- District heating
- Central heating/HVAC
- Cooling systems

Ordering

Accessories code numbers

087N0011

ESMC, Pt 1000

Related products

087H3020 087H3030

084N1012

ESMT, Sensor type: Outdoor, Pt 1000

ESMT, Pt 1000 outdoor sensor

Related products

087H3020 087H3030

087B1164

ESM-10, Sensor type: Room, Pt 1000

ESM-10, Pt 1000 room temperature sensor

Related products

087H3020 087H3030

087H3236

ECL Mounting kit

ECA 30/31 FRAME KIT

Related products

087H3020 087H3030

087H3801

ECL Application keys, A260

ECL Application key A260. 2 x heating control

Related products

087H3020 087H3030

087H3201

ECA 31

ECA 31

Related products

087H3020 087H3030

087B1184

ESMB-12, Pt 1000

ESMB-12, Pt 1000 Universal sensor

Related products

087H3020 087H3030

087H3806

ECL Application keys, A237

ECL Application key A237. Heating / DHW tank control

Related products

087H3020 087H3030

087H3800

ECL Application keys, A266

ECL Application key A266. Heating and DHW control

Related products

087H3020 087H3030

087B1180

ESMU-100, Pt 1000, COPPER||COPPER

ESMU-100, Pt 1000 immersion sensor, 100 mm, copper

Related products

087H3020 087H3030

087H3805

ECL Application keys, A231

ECL Application key A231. Heating control with one or two circulation pump control. Refill water function with one or two pumps.

Related products

087H3020 087H3030

087H3807

ECL Application keys, A217

ECL Application key A217. DHW - / DHW-tank temperature control

Related products

087H3020 087H3030

087B1165

ESM-11, Pt 1000

ESM-11, Pt 1000 Surface sensor

Related products

087H3020 087H3030

087B1181

ESMU-250, Pt 1000, COPPER||COPPER

ESMU-250, Pt 1000 immersion sensor, 250 mm, copper

Related products

087H3020 087H3030

087B1183

ESMU-250, Pt 1000, Stainless steel

ESMU-250, Pt 1000 immersion sensor, 250 mm, stainless steel

Related products

087H3020 087H3030

087H3808

ECL Application keys, A247

ECL Application key A247. Heating and DHW-tank control

Related products

087H3020 087H3030

087B1156

ECA 99, Supply voltage [V] AC: 24, Output voltage [V] AC: 24

ECA 99 TRANSFORMER 24 V

Related products

087H3020 087H3030

087B1182

ESMU-100, Pt 1000, Stainless steel

ESMU-100, Pt 1000 immersion sensor, 100 mm, stainless steel

Related products

087H3020 087H3030

087H3811

ECL Application keys, A214

ECL Application key A214. Heating / cooling control of ventilation systems

Related products

087H3020 087H3030

087H3812

ECL Application keys, A232

ECL Application key A232Heating / cooling control of floor heating / ceiling cooling systems

Related products

087H3020 087H3030

087H3220

ECL Base part

ECL COMFORT 210 BASE PART

Related products

087H3020 087H3030

087H3814

ECL Application keys, A275

ECL Application key A275. Boiler ON-OFF control with 2 x heating and 1 x DHW-tank control

Related products

087H3020 087H3030

087H3802

ECL Application keys, A230

ECL Application key A230. Heating control with wind compensation. Cooling control.

Related products

087H3020 087H3030

087H3200

ECA 30

ECA 30

Related products

087H3020 087H3030

087H3230

ECL Base part

ECL COMFORT 310 BASE PART

Related products

087H3020 087H3030

Accessories and spare parts (for Pt 1000 temperature sensors)

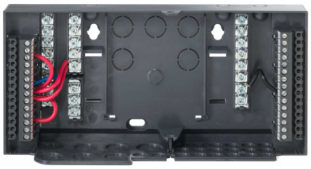
Type	Designation	Code No.
Pocket	Immersion, stainless steel 100 mm, for ESMU-100, Cu (087B1180)	087B1190
Pocket	Immersion, stainless steel 250 mm, for ESMU-250, Cu (087B1181)	087B1191
Pocket	Immersion, stainless steel 100 mm, for ESMB-12, (087B1184)	087B1192
Pocket	Immersion, stainless steel 250 mm, for ESMB-12, (087B1184)	087B1193

Typical ordering, types

ECL Comfort Controller	Base part	Appl. key	Remote Control Unit	Temperature sensors	Actuators / valves
ECL 210, 230 V a.c. ECL 210 B, 230 V a.c.	for ECL 210 for ECL 310	A2xx	ECA 30 ECA 31	ESMT (outdoor) ESM-11 (pipe surface) ESMC (pipe surface) ESMU (immersion) ESM-10 (room) ESMB-12 (universal)	see dedicated literature

Overview

Product portfolio

ECL Comfort 210 Controller	
	The ECL Comfort 210 is easily operated by means of a dial (multi-functional knob) or a Remote Control Unit (RCU). The dial and the backlighted display guide the user through the text menus in the selected language. The ECL Comfort 210 controller has electronic output for motorized valve control, relay output for circulation pump / changeover valve control among others, as well as alarm output. The enclosure is designed for mounting on wall and DIN rail. A variant ECL Comfort 210B (without display and dial) is available. It an be used for mounting inside a panel and is operated by means of the RCU ECA 30 / 31 which can be placed in front of the panel. The ECL Comfort 210 is a stand-alone controller which communicates with the RCU and other ECL Comfort 210 / 296 / 310 controllers via the ECL 485 communication bus.
Base part	
	Danfoss ECL Comfort mounting base part. For mounting on wall or DIN rail (35 mm). Depending on application, one of the internal extension modules ECA 32 or ECA 35 (inserted into the controller's base part) can give additional input and output signals.
Application key	
	The ECL Comfort 210 controller is loaded with the desired application by means of the ECL Application Key, which contains information about applications (basic application sketches are shown in the display), languages, factory settings and firmware. The ECL Application Keys, series A2xx can be used in ECL Comfort 210, ECL Comfort 296 and ECL Comfort 310. Most of the A2xx application keys give extended functionalities when used in ECL Comfort 310, such as additional temperature sensors and M-bus communication. The ECL Application Keys, series 3xx can be used in ECL Comfort 310 only. The application parameters are stored in the controller and are not affected by power break. The relevant ECL Application Keys for the ECL Comfort 210 / 296 / 310 controller can be found in the ordering section.

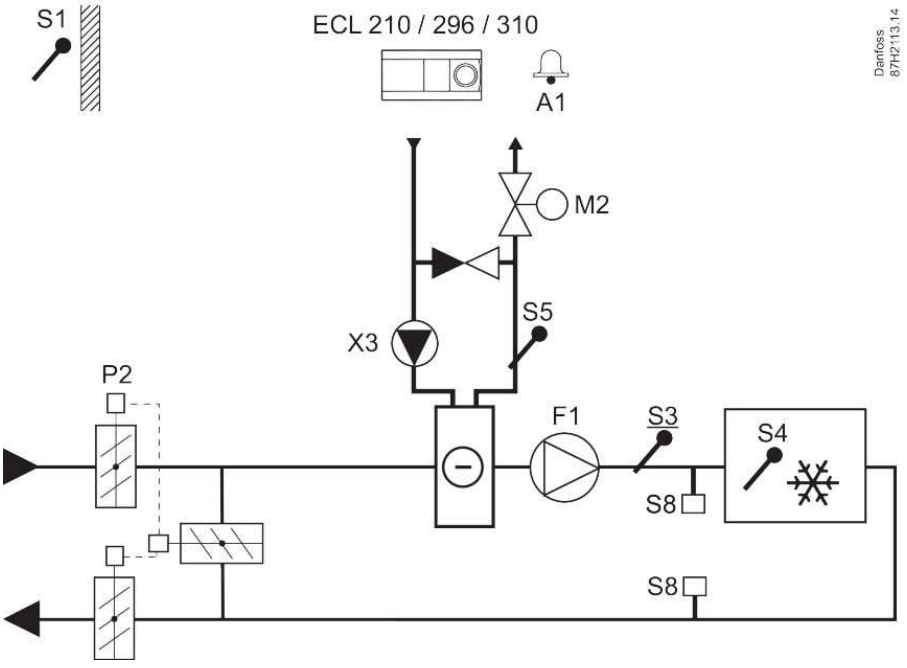
Remote Control Unit	
	The Remote Control Units (RCU ECA 30 and ECA 31) are used for room temperature control and override of the ECL Comfort 310. The display has backlight. The RCUs are connected to the ECL Comfort controllers by means of 2 × twisted pair cable for communication and power supply (ECL 485 communication bus). The ECA 30 / 31 has a built-in room temperature sensor. An external room temperature sensor can be connected substituting the built-in temperature sensor. Furthermore, the ECA 31 has a built-in relative humidity sensor and the signal is used in relevant applications. It is possible to connect up to 2 RCUs on the ECL 485 communication bus. One RCU can monitor max. 10 ECL Comfort controllers (master/ slave system). The ECL Comfort 310 can also work with up to 2 x RCUs, ECA 32 / 35 and other ECL Comfort 210 / 296 / 310 controllers via the ECL 485 communication bus.
Temperature sensors	
	6 Pt 1000 temperature sensors can be connected. In addition, 4 inputs are configured when uploading the application. The configuration can be Pt 1000 temperature sensor input, analogue input (0 – 10 V) or digital input. Platinum-based sensors, 1000 Ω at 0 °C All the temperature sensors are two-wire devices, and all connections are inter-changeable.

Application examples

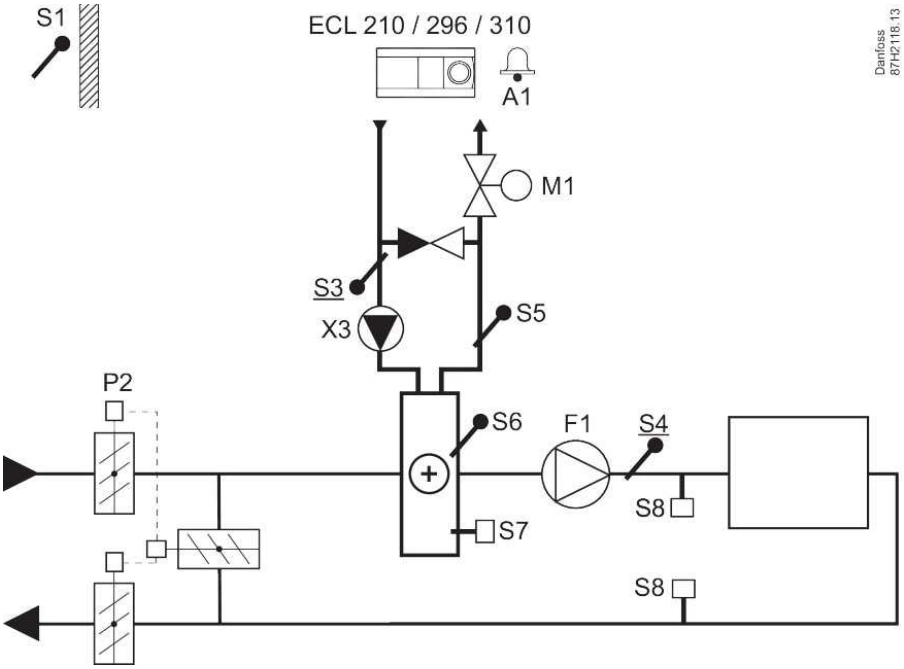
All mentioned components (S = temperature sensor, P = pump, M = Motorized control valve and so on) are wired to the ECL Comfort 210.

A214.1, ex. a:
Cooling application, duct temperature based on room temperature

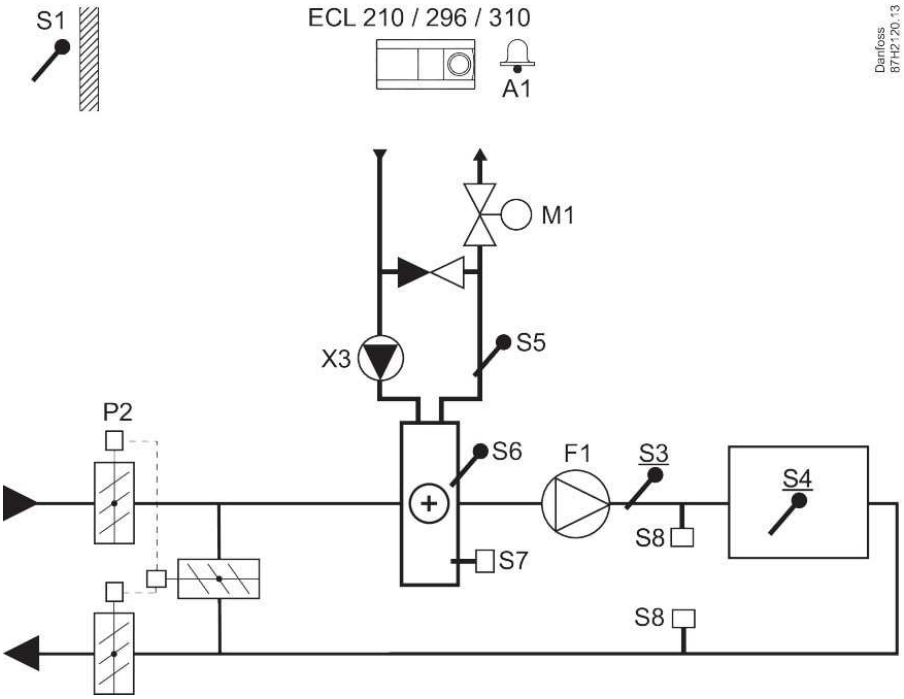
Further application examples can be found on http://heating.danfoss.com



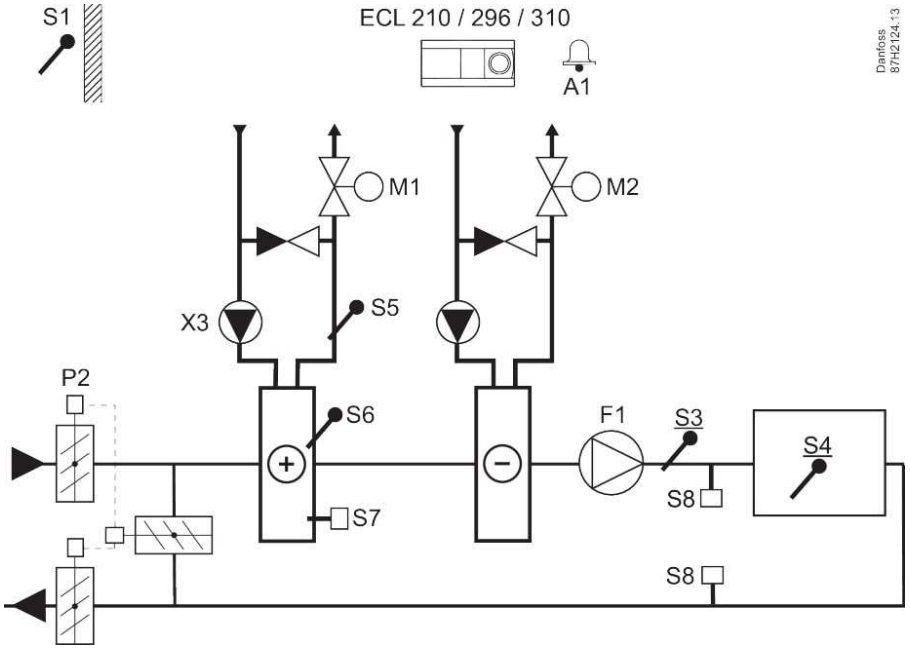
A214.2, ex. a:
Heating application, heating temperature based on duct temperature



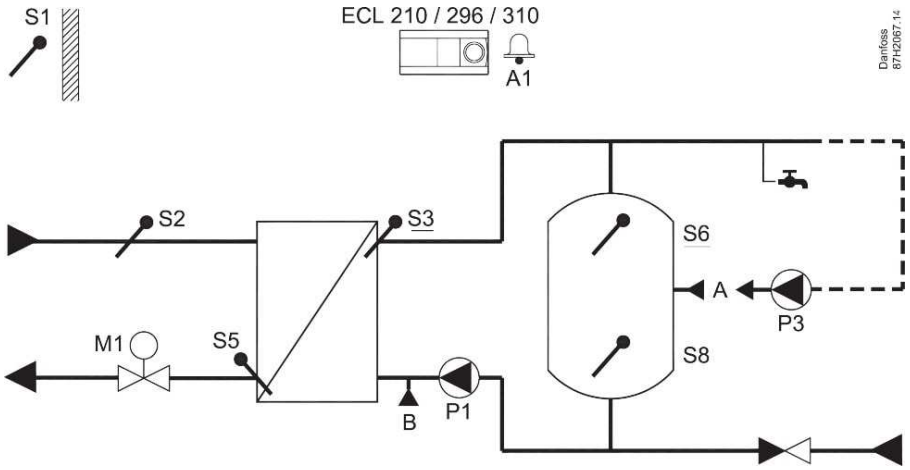
A214.3, ex. a:
Heating application, duct temperature based on room temperature



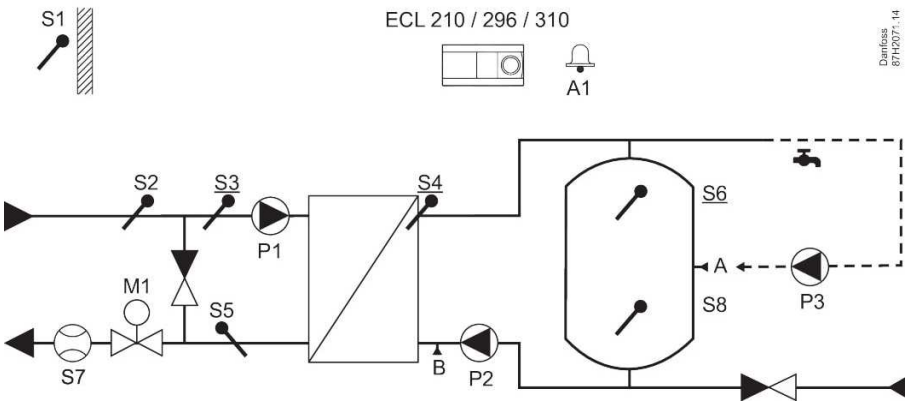
A214.5, ex. a:
Heating / cooling application, duct temperature based on room temperature



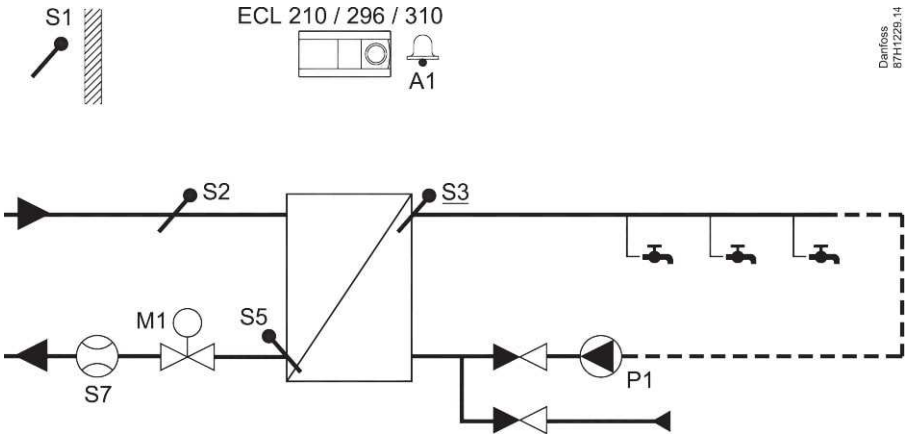
A217.1, ex. a:
DHW tank charging application



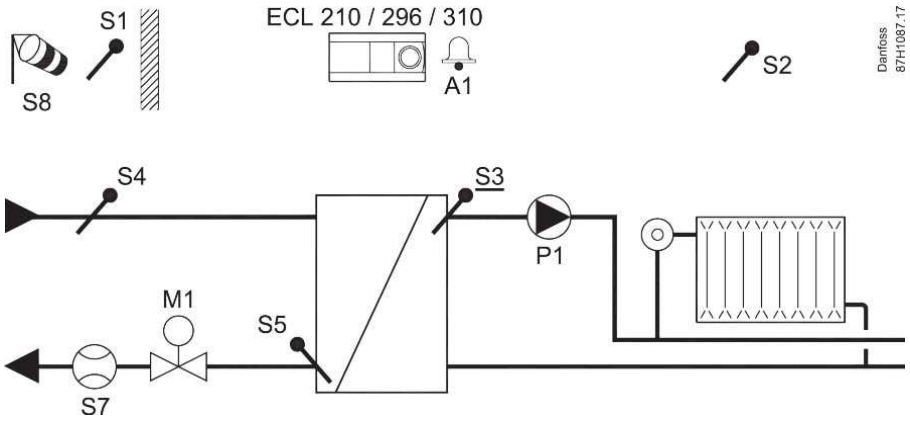
A217.2, ex. a:
DHW tank charging with preheating circuit



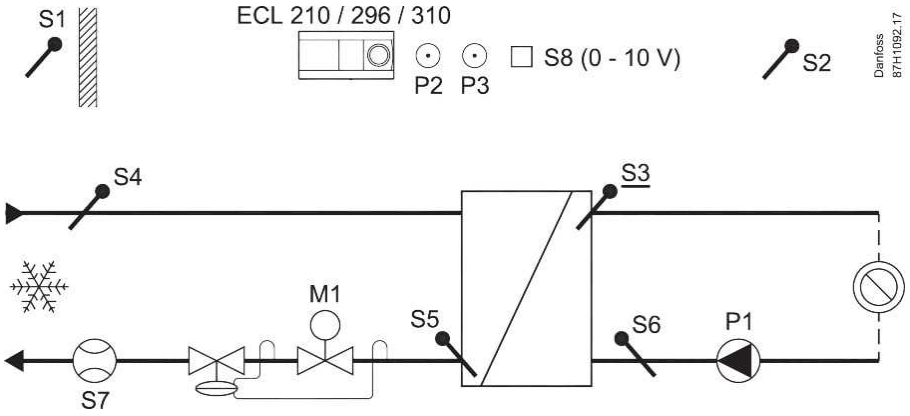
A217.3, ex. a:
DHW heating



A230.1, ex. a:
Indirectly connected heating system. Wind compensation as option

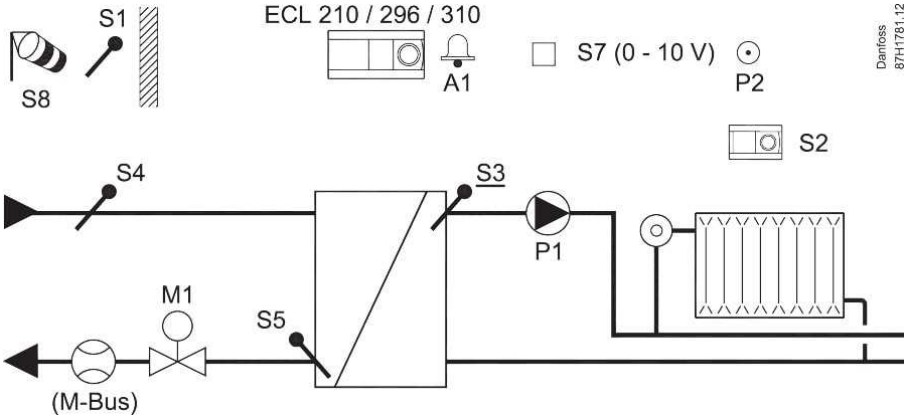


A230.2, ex. a:
Indirectly connected cooling system (district cooling)



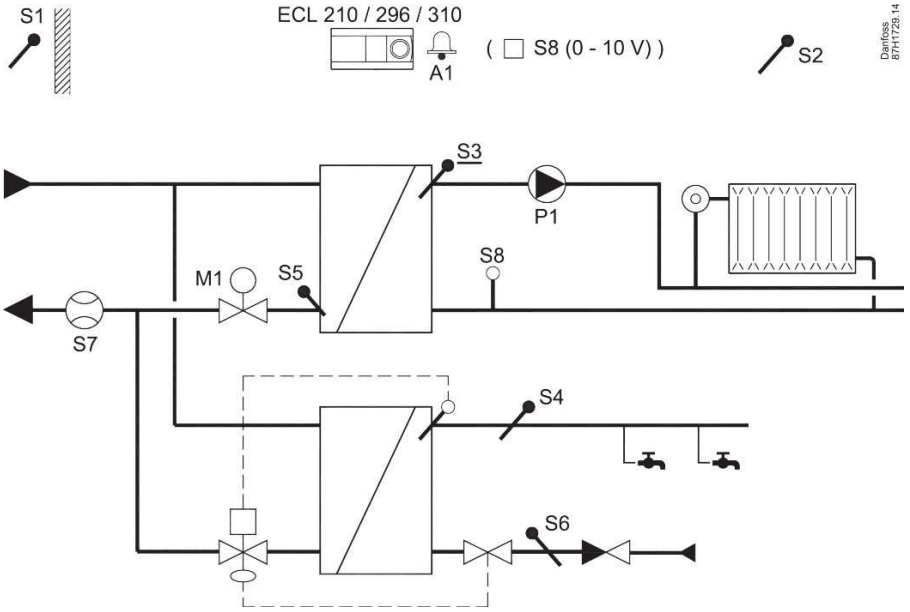
A230.3, ex. a:

Indirectly connected heating system. Optional wind compensation and protection against condensation in thermal heavy buildings



A230.4, ex. a:

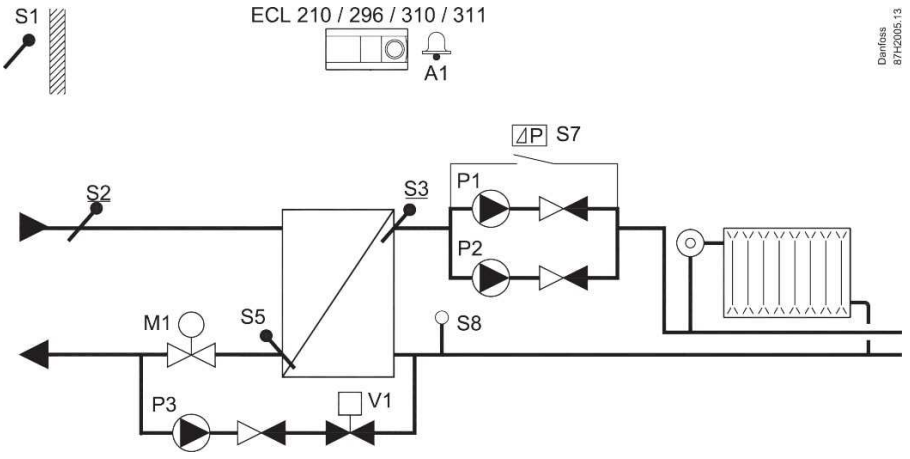
Indirectly connected heating system. Optional pressure monitoring and temperature monitoring of DHW and Cold Water temperatures



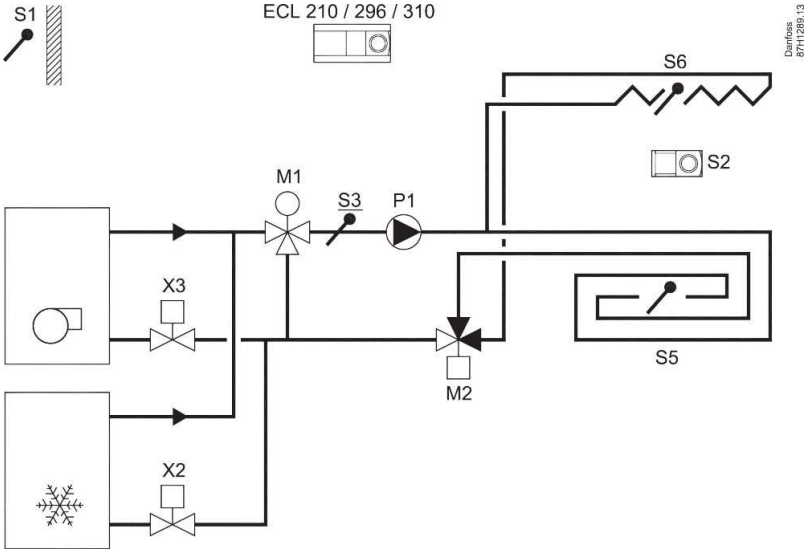
0 - 10 Volt control (modulated control) of actuator is only possible with ECL Comfort 310 with built-in extension module ECA 32.

A231.2:

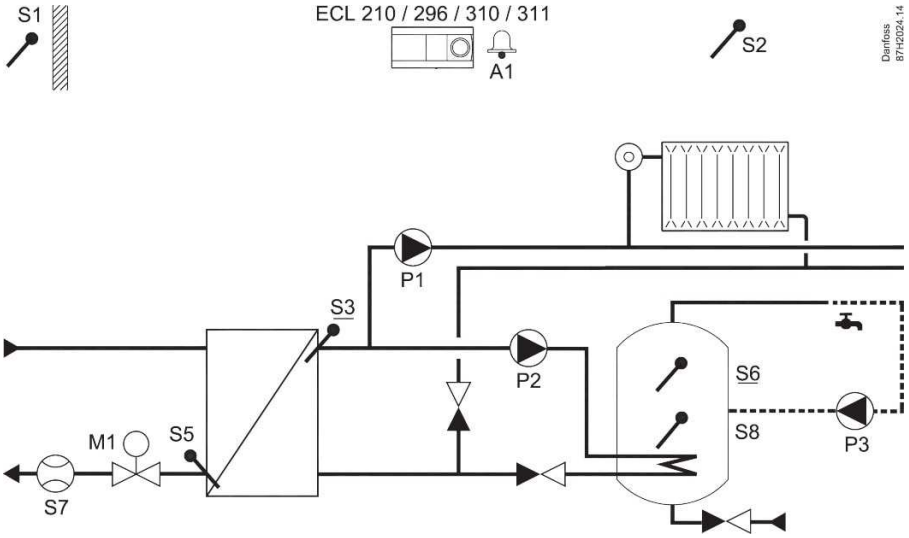
Indirectly connected heating system with 2-pump control and refill water function



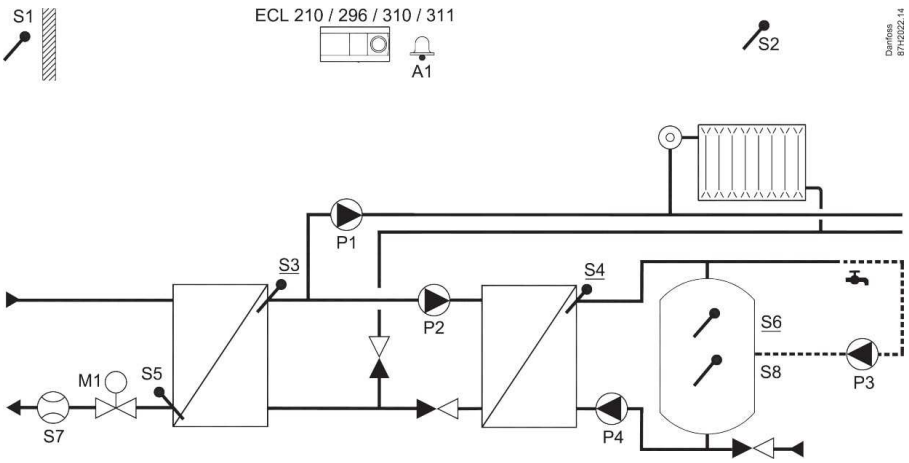
A232.1, ex. a:
Control of flow temperature (heating in floor / cooling in ceiling) in relation to outdoor, room and dew point temperature



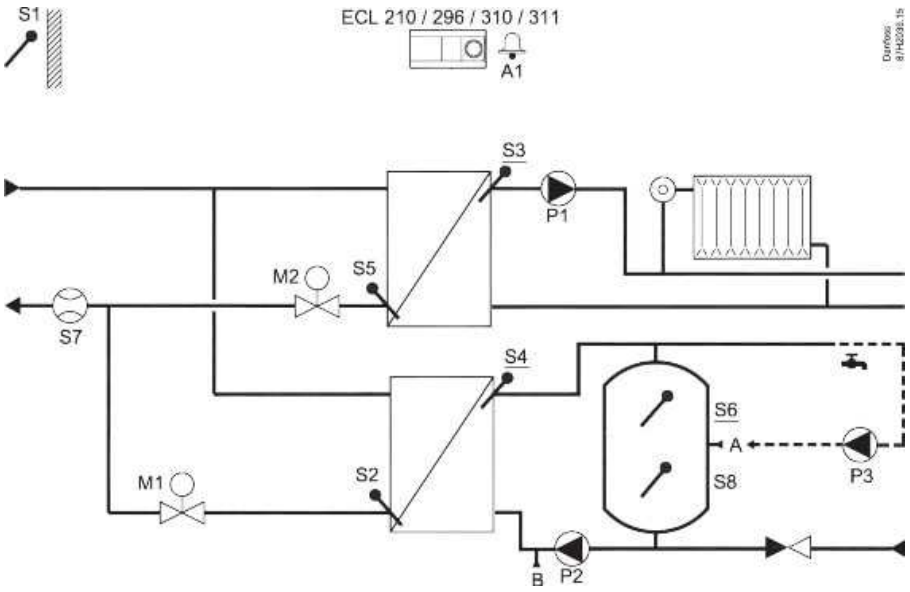
A237.1, ex. a:
Indirectly connected heating and DHW system



A237.2, ex. a:
Indirectly connected heating and DHW charging system

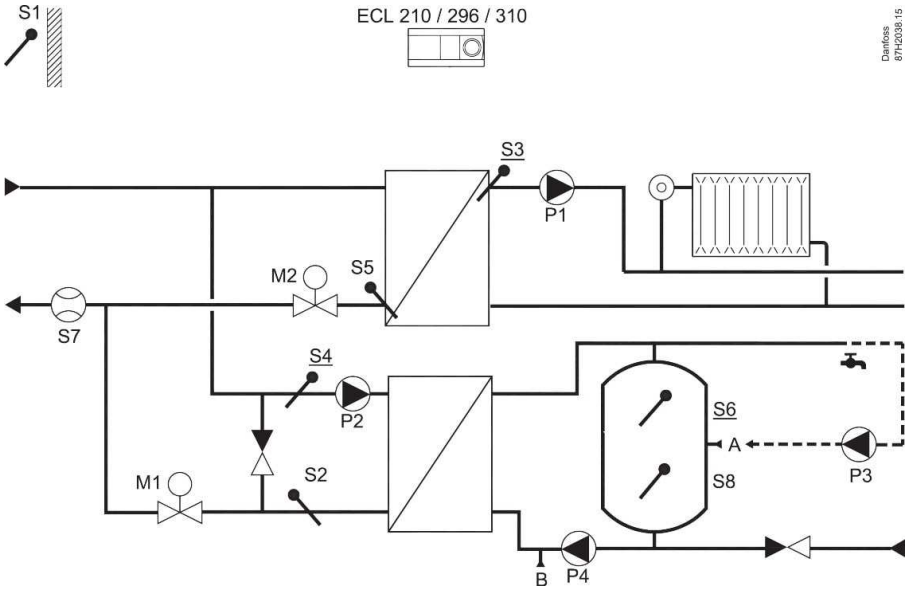


A247.1, ex. a:
Indirectly connected heating and DHW tank charging system. Parallel mode or DHW priority



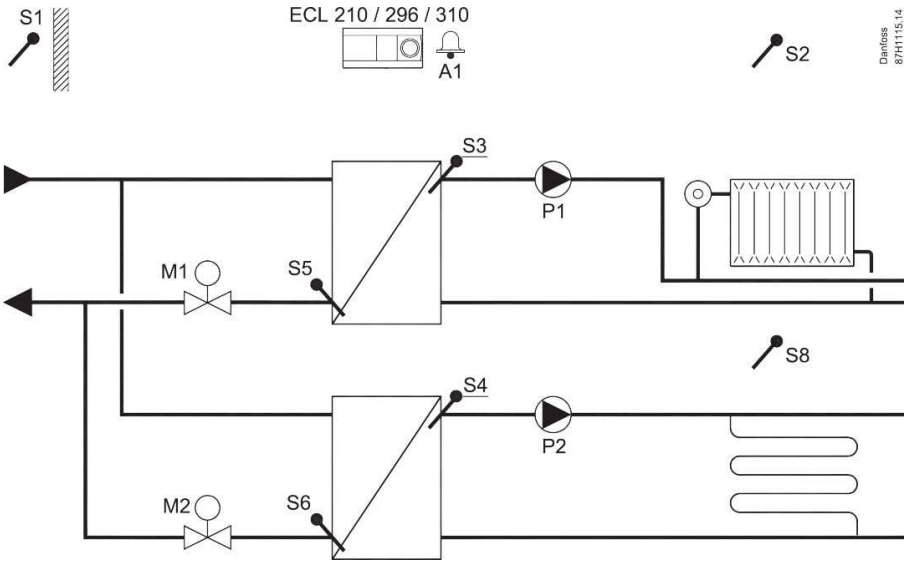
(S7*) = optional in ECL Comfort 310

A247.2, ex. a:
Indirectly connected heating and DHW tank charging system with preheating circuit.
Parallel mode or DHW priority

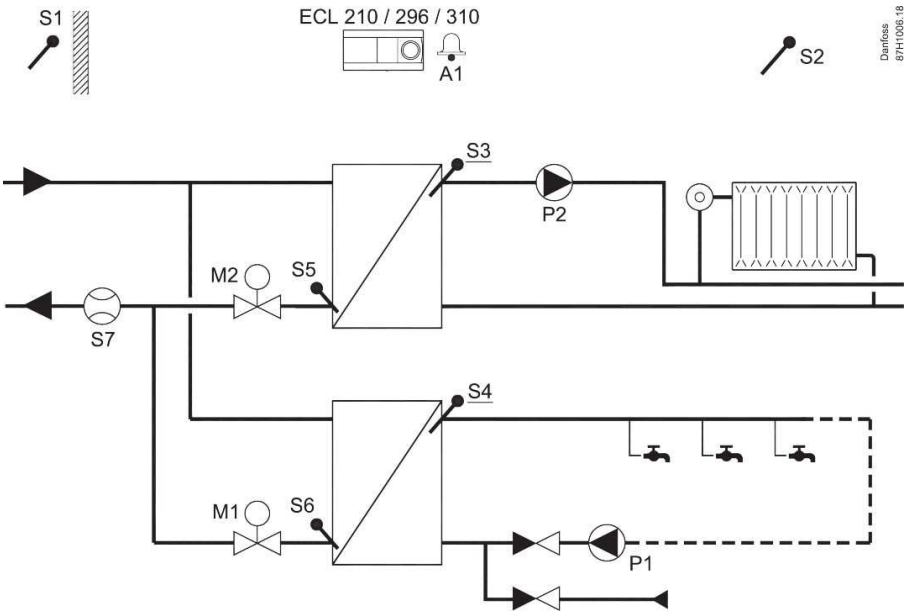


(S7*) = optional in ECL Comfort 310

A260.1, ex. a:
Two heating systems

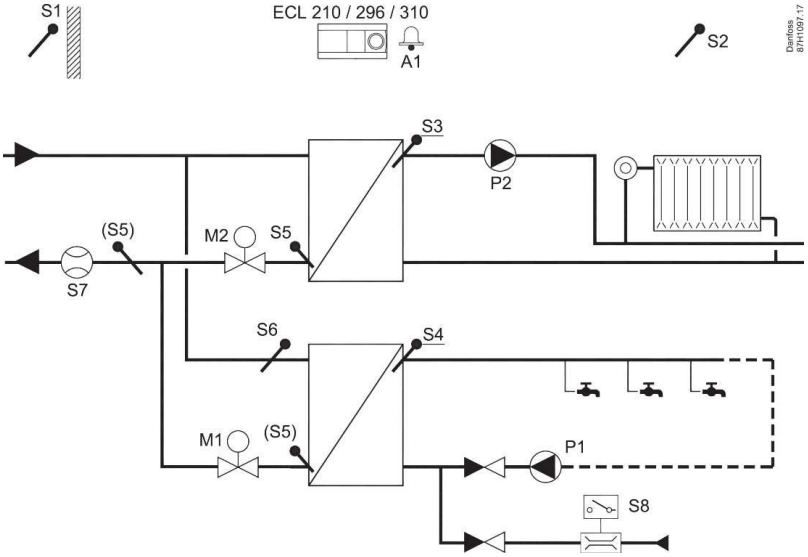


A266.1, ex. a:
Heating and direct DHW heating system. Parallel mode or DHW priority

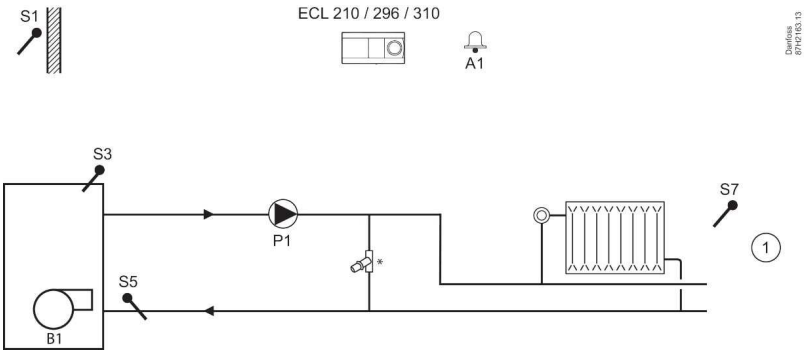


0 - 10 Volt control (modulated control) of actuator is only possible with ECL Comfort 310 with built-in extension module ECA 32.

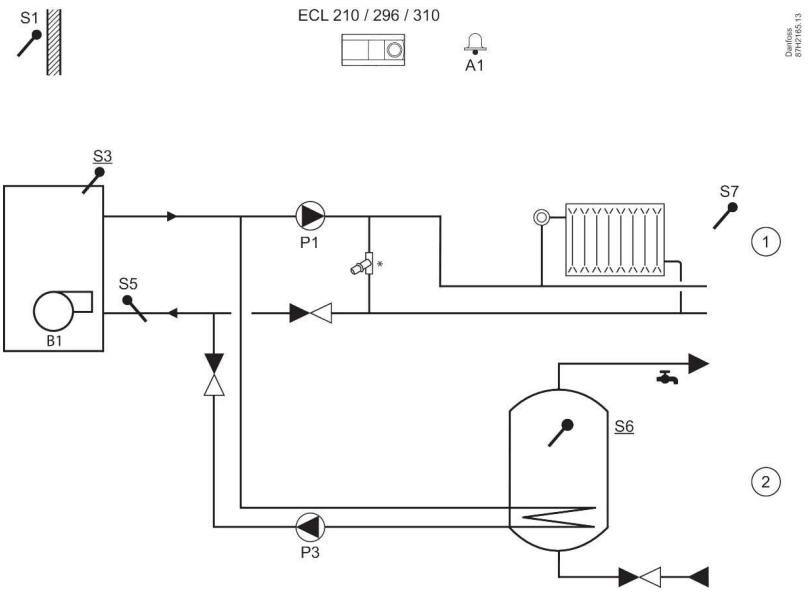
A266.2:
Heating and direct DHW heating system. Parallel mode or DHW priority. DHW heating on demand (flow switch)



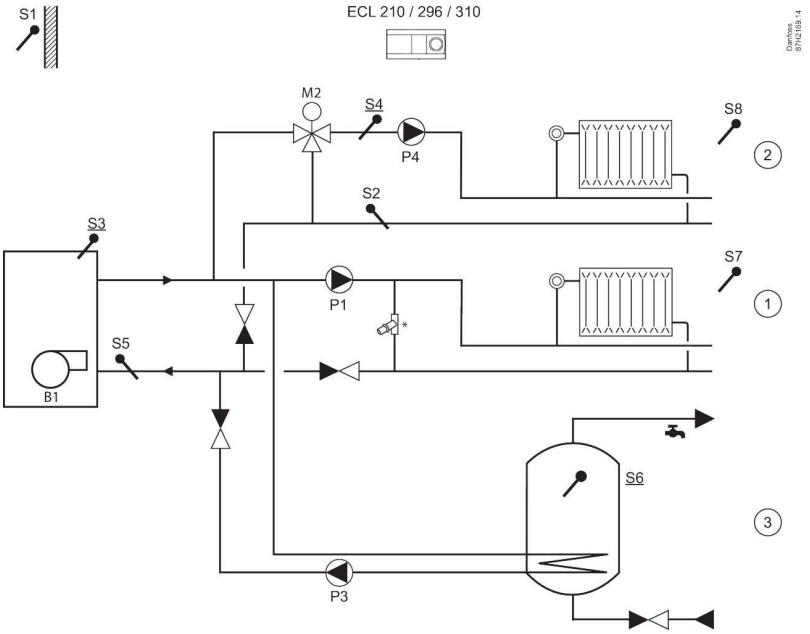
A275.1, ex. a:
Heating system with 1-stage boiler



A275.2, ex. a:
Heating system with 1-stage boiler and DHW tank



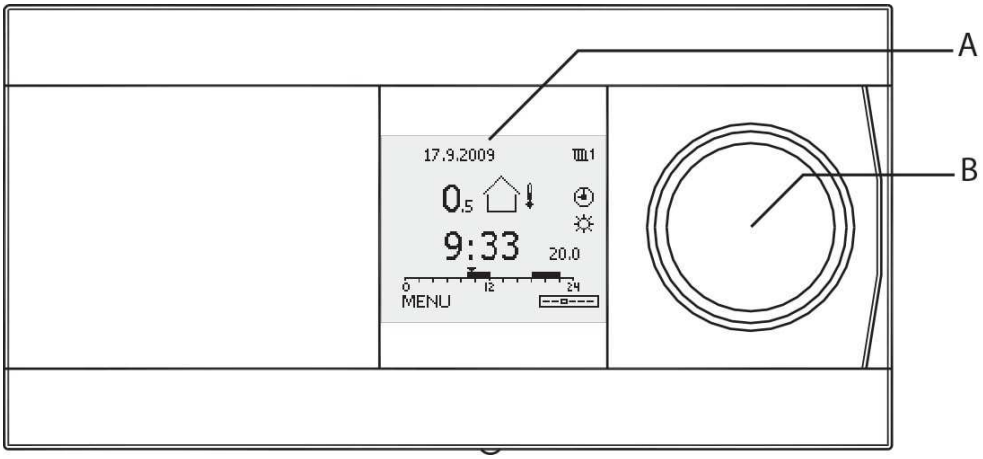
A275.3, ex. a:
Heating system with 1-stage boiler, mixing circuit and DHW tank



Modulated burner control (0 - 10 Volt) is only possible with ECL Comfort 310 with built-in extension module ECA 32.

Functions

Operation



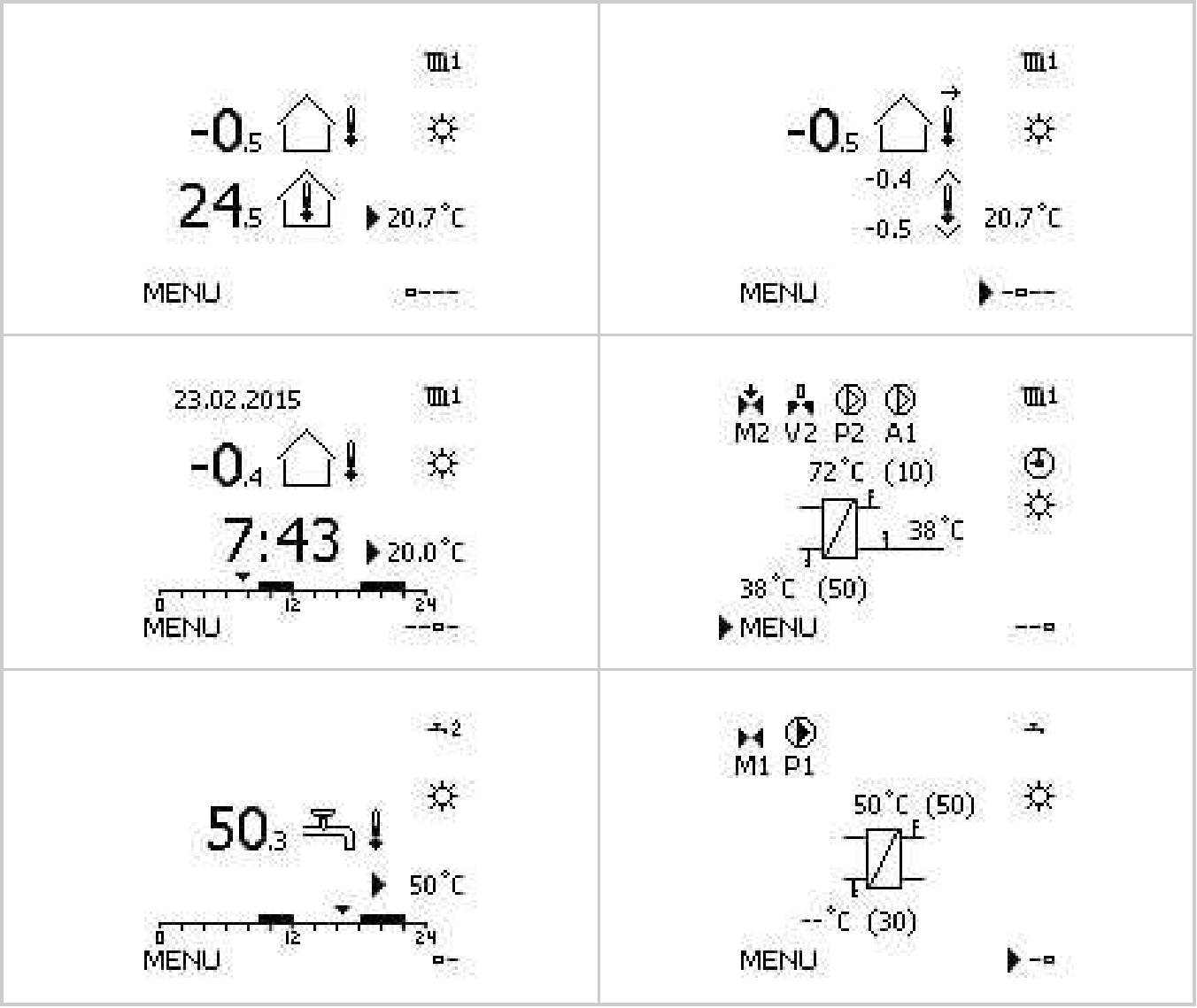
The graphical monochrome display (A) shows all temperature values as well as status information and is used for the setting of control parameters. The display has backlight. Different favorite displays can be selected. Navigation, browsing and selecting the current item in the menus is done by means of the dial (multi-functional knob (B)).

The RCUs ECA 30 / 31 are used for remote setting and override of ECL Comfort controller. By means of the built-in room temperature sensor, the flow temperature can be corrected to keep a constant room temperature at comfort or saving temperature. The ECA 30 / 31 is operated as an ECL Comfort 210 with dial and backlighted display.

Languages

Menu languages are selectable among approx. 22 languages. See “Language list”.
Furthermore, English is always uploaded in parallel to the selected language.

Examples of favorite displays:



Settings

General functions:

- The ECL Comfort 210 has all the required functions of a modern electronic temperature controller for heating, cooling, ventilation and DHW applications.
- The controller can be used as master or slave in systems with master / slave ECL Comfort 210 / 296 / 310 controllers.
- The ECL application key contains the application software for flexible configuration. Furthermore, an update of the controller software is done automatically, if required.
- The ECL Comfort 210 contains, besides the standard functions, log and alarm functions.
- The built-in real time clock gives automatic summer / winter time changeover, week and holiday schedule.
- Motor protection, which ensures stable control and a long life of the motorized control valve, is available for most of the applications. In periods without heat demand, the motorized control valve can be exercised to avoid blocking.
- Scheduled control (comfort and saving mode) is based on a week program. A holiday program gives the possibility to select days with comfort or saving mode.
- The ECL Comfort 210 can receive pulses from a heat or flow meter to limit the power or the flow.
- In many applications analog input (0 – 10 V) is configured for pressure measuring among others. The scaling is set in the controller.
- Some applications are configured to handle digital input. This function can be used to have an external switch to run comfort or saving mode or react on a flow switch signal.
- The control parameters, proportional band (Xp), integration time (Tn), running time of the motorized control valve and neutral zone (Nz) can be set individually for each output (3-point control).

Heating functions:

- The heat curve (relationship between outdoor temperature and desired flow temperature) is set by means of 6 coordinate points or a slope value. Max. / min. limitation of the desired flow temperature can be set.
- The return temperature limitation can work in relation to the outdoor temperature or be a fixed value.
- The heating cut-out function can switch OFF the heating and stop the circulation pump at high outdoor temperatures.
- Based on the room temperature the ECL Comfort 210 can correct the desired flow temperature in order to increase the comfort level.
- The optimizer function ensures heating in the desired periods (the lower outdoor temperature, the earlier cut-in of the heating).
- The ramping function makes a smooth cut-in of the heating valuable (district heating installations).
- The boost function makes a powerful cut-in of the heating (boiler based installations).
- The circulation pump is controlled in relation to heat demand and frost protection. In periods without heat demand, the circulation pump can be exercised to avoid blocking.
- The saving function gives two possibilities: • reduced flow temperature with fixed reduction or reduction in relation to outdoor temperature (the lower the outdoor temperature, the less the reduction), • heating off, still with active frost protection.

DHW functions:

- The auto tuning function with automatic setting of control parameters for constant DHW temperature is integrated in the application A217 and A266. However, auto tuning is only applicable with valves that are approved for auto tuning, i.e. the Danfoss types VB 2 and VM 2 with split characteristic as well as logarithmic valves such as VF and VFS.
- The anti-bacteria function can follow a dedicated schedule program.
- The heating circuit can have sliding DHW priority.

Data communication

The ECL Comfort 210 has an ECL 485 communication bus (non-galvanically separated), which is used for closed communication between master, slave and RCUs.

Additionally, the ECL Comfort 210 has a non-galvanically separated RS 485 bus for limited (cable length) Modbus communication. A USB connection (type B) can be used for the ECL Tool.

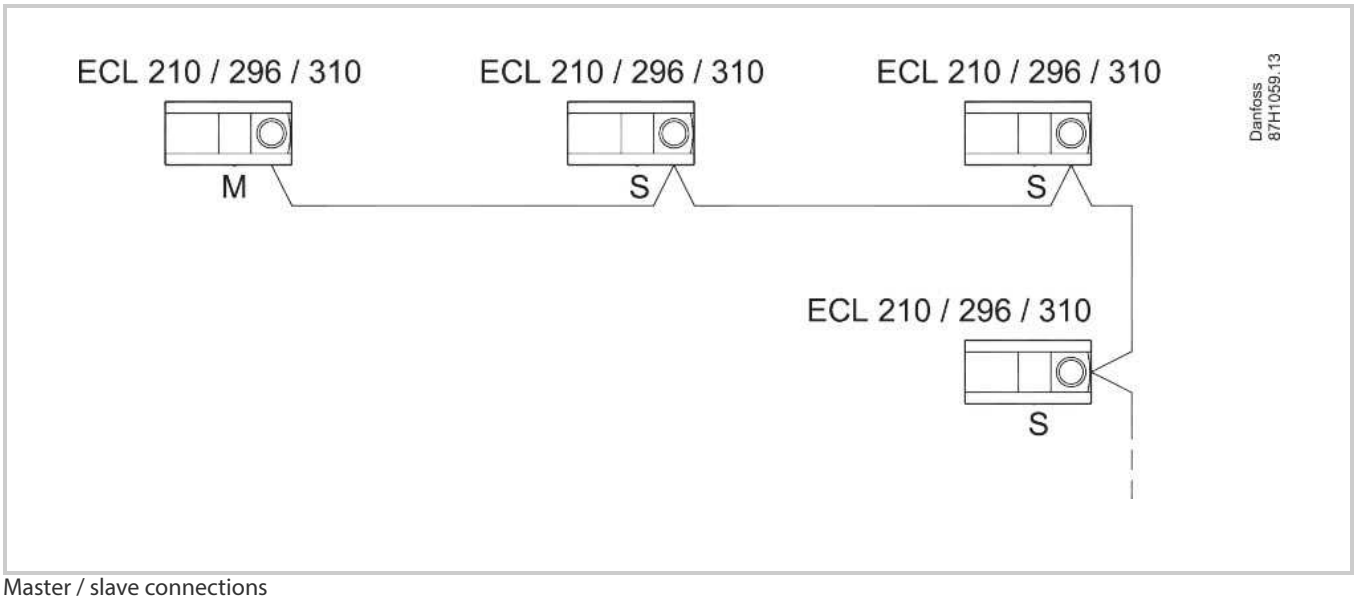
The ECL Tool can be downloaded for free from the internet:

ECL tool | Danfoss

https://www.danfoss.com/en/service-and-support/downloads

If M-bus is required, this option is available in ECL Comfort 296 / 310.

If communication to Leanheat® Monitor is required, this option is available in ECL Comfort 296 / 310.



Master / slave connections

Languages

Menu languages are selectable among approx. 22 languages. See "Language list".
Furthermore, English is always uploaded in parallel to the selected language.

Product details

General data

ECL Comfort controller and RCU data

	ECL Comfort 210 / 210B	ECA 30 / 31
Ambient temperature	0 - 55 °C	
Storage and transportation temperature	-40 - 70 °C	
Mounting	Vertically, on wall or DIN rail (35 mm)	Vertically, on wall or in panel cut-out
Connections	Terminals in base part	Terminals in base part
Number of inputs	8 in total: 6 temperature sensors 2*) Pt 1000 sensor, digital, analog or pulse	-
Temperature sensor type	Pt 1000 (1000 ohm at 0 °C), IEC 751B Range: -60 – 150 °C	Alternative to built-in room temperature sensor: Pt 1000 (1000 ohm at 0 °C), IEC 751B
Digital input	12 V pull-up possible Activation of a digital input must be done with a potential free switch / contact.	-
Analog input	0 - 10 V, resolution 9 bits	-
Pulse input, frequency range (selected applications)	For monitoring: 0.01 - 200 Hz For limitation: Minimum 1 Hz (recommended) and regular pulses for having a stable control.	-
Weight	0.46 / 0.42 kg	0.14 kg
Display (ECL Comfort 210 and ECA 30 / 31 only)	Graphical monochrome with backlight 128 × 96 dots Display mode: Black background, white text	
Setting (ECL Comfort 210 and ECA 30 / 31 only)	Dial with intuitive push and turn function	
Setting (ECL Comfort 210 B)	ECA 30 / 31	
Min. backup time for time and date	72 hours	-
Backup of settings and data	Storage in EEPROM (timeless)	-
Grade of enclosure	IP 41	IP 20
CE-marking in accordance with the standards	EMC directive LVD directive RoHS directive	

*) Configured at application upload.

ECL application key

Storage type	EEPROM
Segmentation	Part 1: Application data, not changeable Part 2: Factory settings, not changeable Part 3: Updating firmware for the ECL Comfort controller, not changeable Part 4: User settings, changeable
Applications	A2xx keys work in ECL Comfort 210, 296, and ECL Comfort 310 A3xx keys work in ECL Comfort 310 only
Lock function	If the application key is not inserted in the ECL Comfort controller, all settings can be seen, but not changed

ECL 485 communication bus data

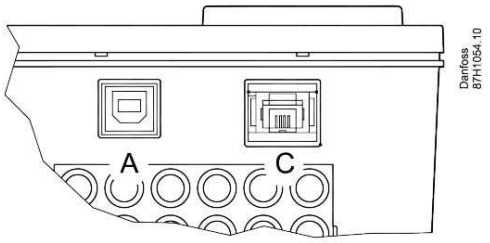
Purpose	For internal ECL Comfort 210 / 296 / 310 and ECA 30 / 31 use only (Danfoss proprietary bus)
Connection	Terminals in base part Non-galvanically isolated
Cable type	2 × twisted pair
Max. total cable length (bus cable + sensor cables)	200 m in total (inclusive sensor cables)
Max. number of ECL slaves connected	Units with unigue address (1 - 9): 9 Units with address "0": 5
Max. number of Remote Control Units connected	2
Data sent from master	Date Time Outdoor temperature Desired room temperature DHW-priority signal
Data sent from addressed slave controller	Desired flow temperature from each circuit
Data sent from ECA 30 / 31	• Actual and desired room temperature • Function selector mode • (ECA 31) Relative humidity

Modbus communication data

Modbus RS 485	For service purposes
Connection	Terminals in base part Non-galvanically isolated
Cable type	2 x twisted pair
Max. bus cable length	20 m

USB communication data

USB CDC (Communication Device Class)	For service purposes (Windows driver is needed, to enable that Windows recognize the ECL as a virtual COM port)
Modbus over USB	Similar to the serial Modbus, but with relaxed timing
Connection, cable type	Standard USB cable (USB A .....USB B)



A port: USB (type B female plug)

C port: ECL application key

Language list

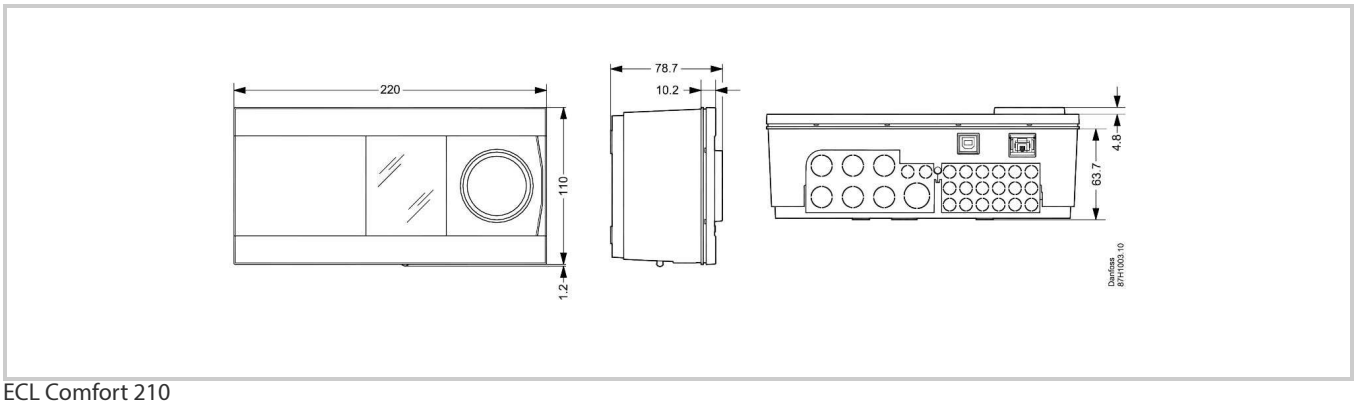
Bulgarian	Estonian	Italian	Russian
Croatian	Finnish	Latvian	Serbian
Czech	French	Lithuanian	Slovak
Danish	German	Polish	Slovenian
English	Hungarian	Romanian	Swedish
Dutch	Spanish		

The selected language + English is uploaded at application upload.

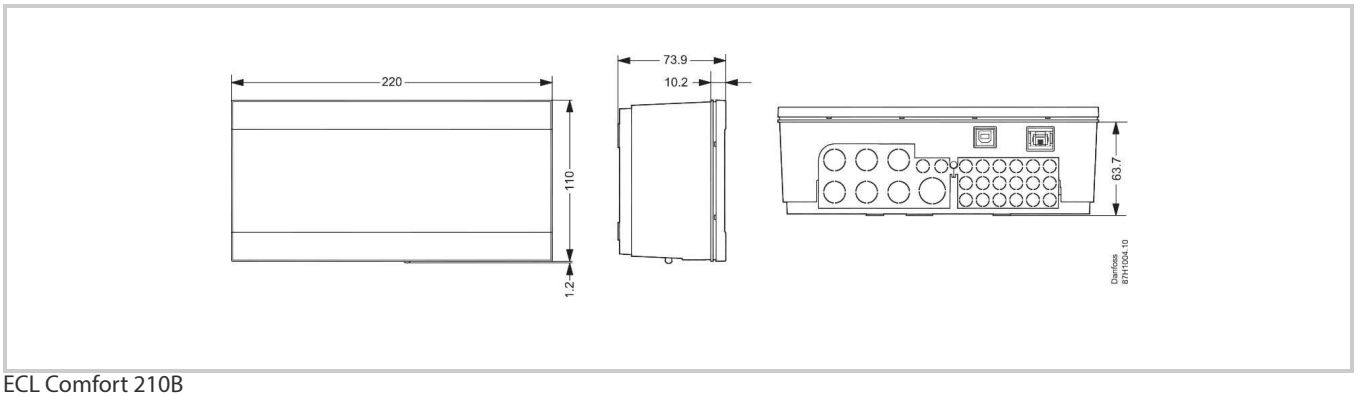
References

M-bus communication (non-galvanically separated)	ECL Comfort 296 / 310
Modbus connection (galvanically separated)	ECL Comfort 296 / 310
Ethernet	ECL Comfort 296 / 310 has Ethernet connection, RJ45, Modbus / TCP. For SCADA solutions
Extension of input / outputs	ECL Comfort 310 (2 extra inputs, 1 extra output for actuator, 2 extra relays) ECL Comfort 310 + ECA 32 (6 inputs, 2 pulse inputs, 3 analog outputs (0 - 10 V) and 4 relays) The analog outputs (0 - 10 V) can in some applications be used for control of analog controlled actuators, fan speed and pump speed.

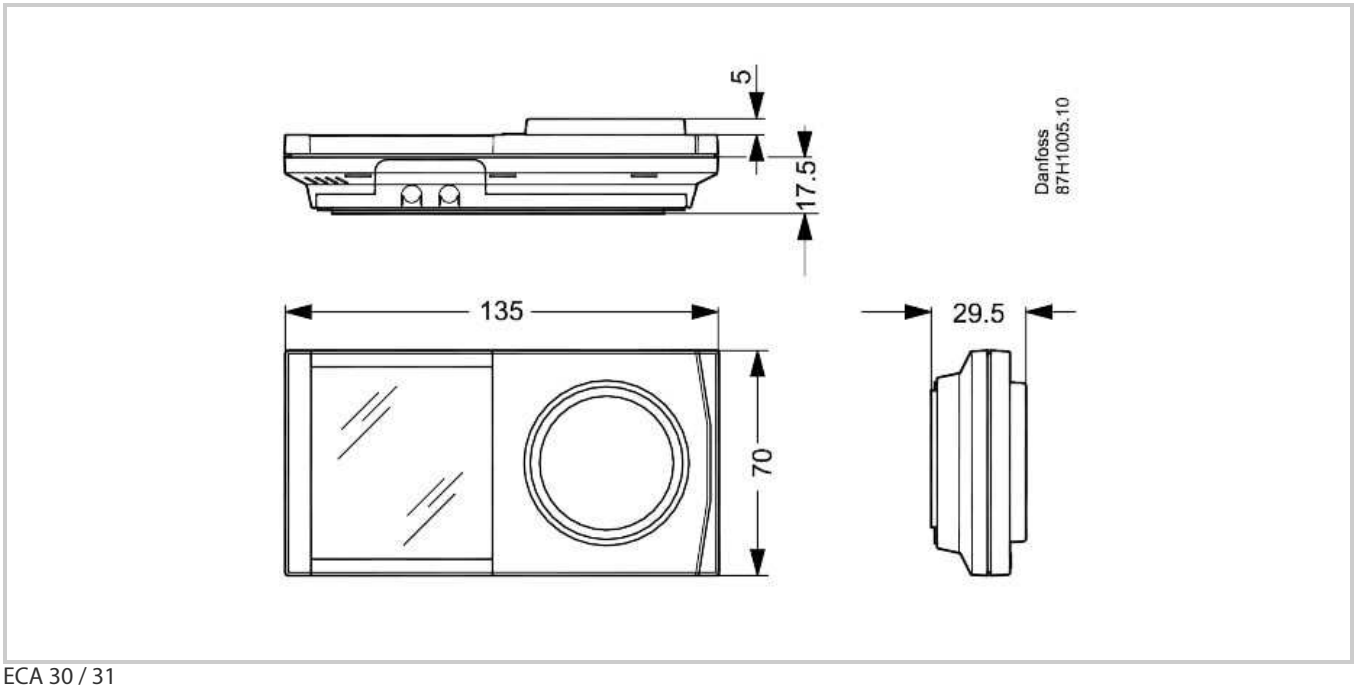
Dimensions



ECL Comfort 210



ECL Comfort 210B

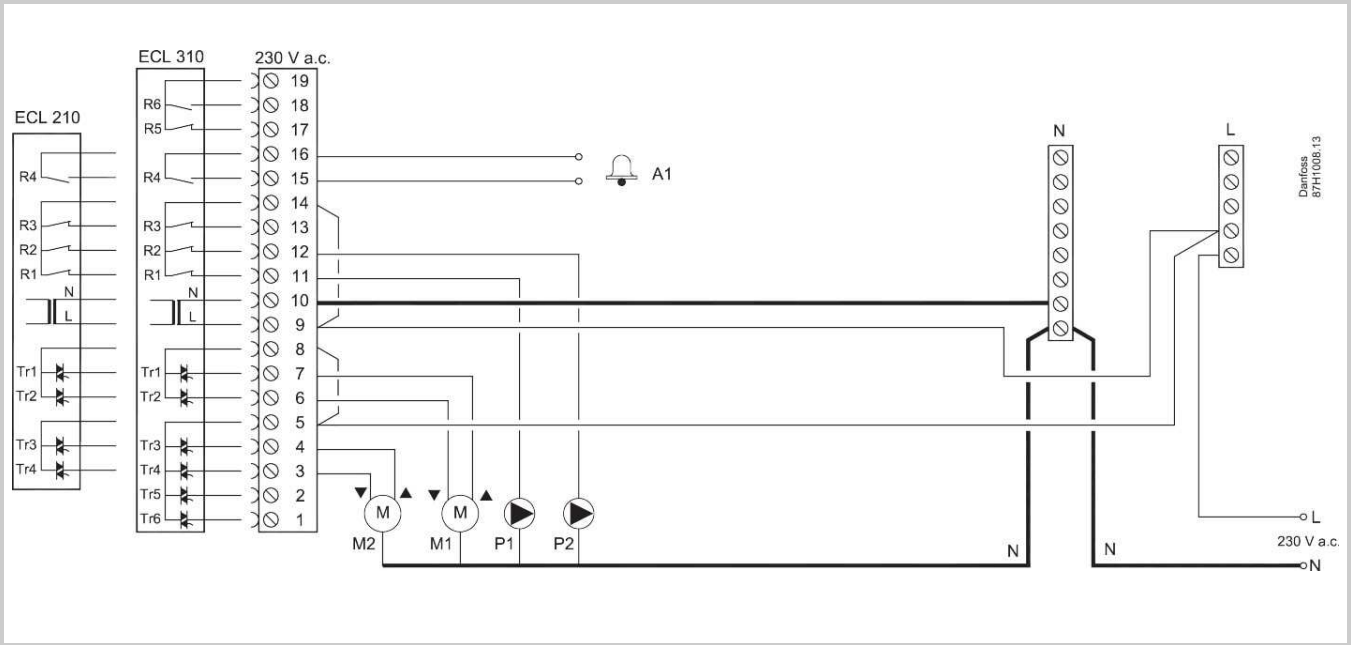


ECA 30 / 31

Weight	ECL Comfort 210/ 210B	ECA 30 /31	Base part	ECA 32
	0.44 / 0.40 kg	0.14 kg	0.24 kg	0.096 kg

Installation

Wiring - 230 V a.c.



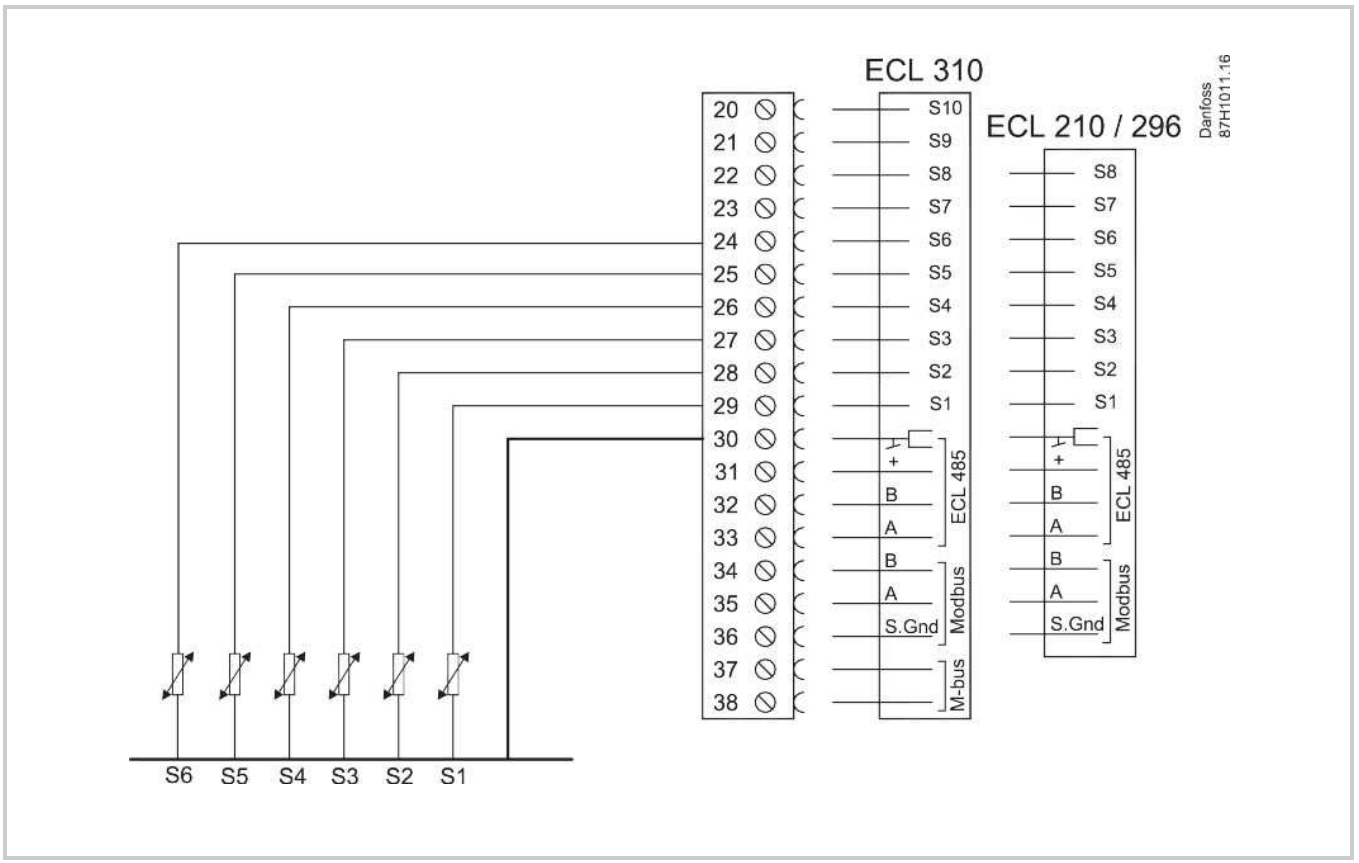
ECL Comfort 210 wiring example: Application A266.1

Supply voltage	230 V a.c. - 50 Hz
Voltage range	207 to 244 V a.c. (IEC 60038)
Power consumption	5 VA
Max. load on relay outputs	4(2) A - 230 V a.c. (4 A for ohmic load, 2 A for inductive load)
Relay contact material	Silver alloy
Max. load on triac outputs for actuators (a.c. load only)	0.2 A - 230 V a.c.

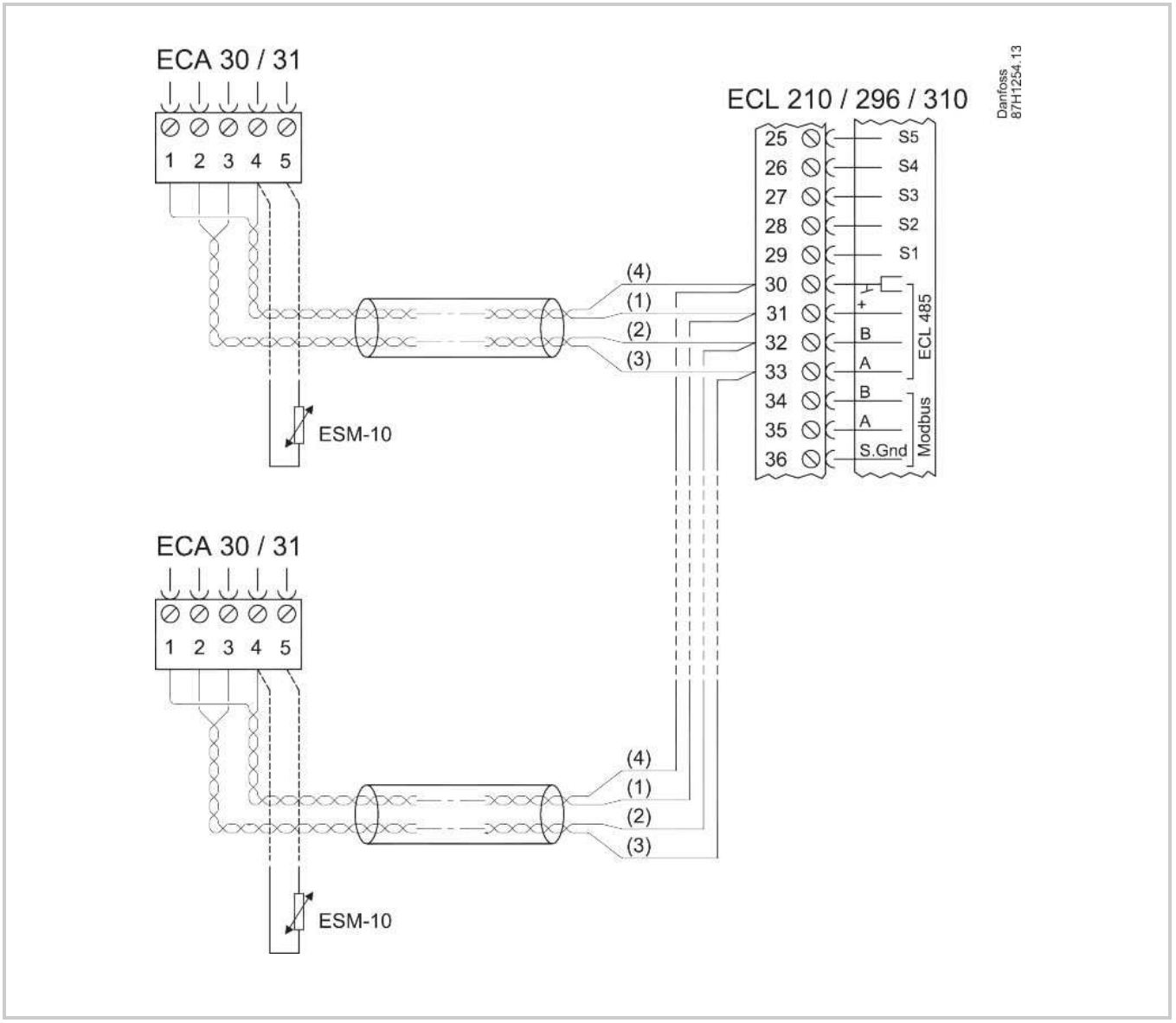
Warning:
Electric conductors on PCB (**P**rinted **C**ircuit **B**oard) for supply voltage, relay contacts and triac outputs do not have mutual safety distance of minimum 6 mm. The outputs are not allowed to be used as galvanic separated (volt free) outputs.
If a galvanic separated output is needed, an auxiliary relay is recommended.

24 Volt controlled units, for example actuators, are to be controlled by means of ECL Comfort 310, 24 Volt version.

Wiring - input



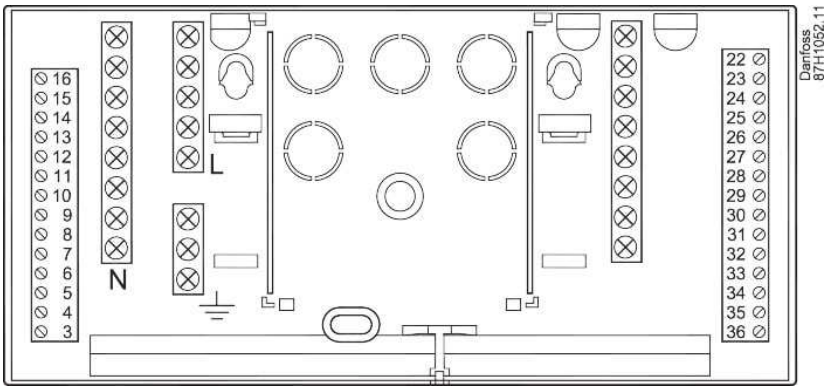
Wiring - ECA 30 / 31 Remote Control Unit



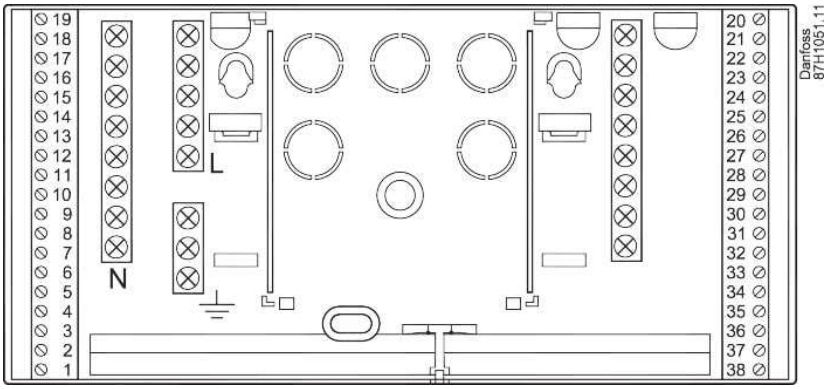
Wiring of ECL Comfort 210 and ECA 30 / 31, 230 V a.c.

Supply voltage	From ECL 485 communication bus
Power consumption	1 VA
External room temperature sensor	Pt 1000 (ESM-10), substitutes the built-in room temperature sensor
ECA 31 only	Contains humidity sensor, used for special applications

Base part

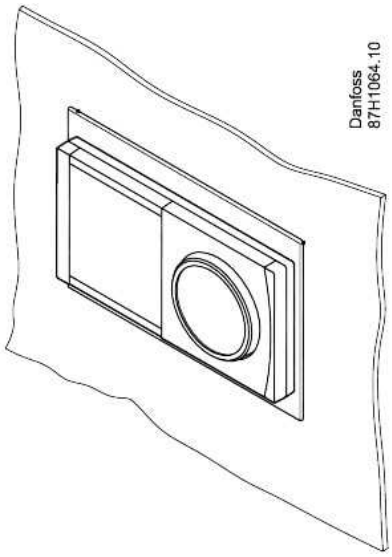


ECL Comfort 210 base part



ECL Comfort 310 base part (can be used for ECL Comfort 210 too)

ECA 30 / 31 cut-out for mounting in panel front



A frame (code no. 087H3236) is placed in the cut-out (139 × 93 mm) in which the ECA 30 / 31 is placed.

Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
UA Declaration	UA Controllers 2024-07-25	Danfoss	LVD
Electrical Safety Certificate	EAC KZ 7100841.01.01.01245	EAC - Eurasian Customs Union	LVD
EU Declaration	Danfoss EU VJAOA502.01	Danfoss	LVD

Tender text

Electronic controller for heating and domestic hot water applications

1a
Electronic weather compensator for flow temperature control in heating and domestic hot water installations.
Turn-push-dial, backlighted graphic display and menu-based operation in local languages.
The controller can operate multiple application uploaded by means of application software keys.

1b

- Heat curve setting in 6 coordinates or as slope.
- Flow temperature limitations.
- Room temperature compensation and comfort / saving periods according to week schedule.
- Holiday schedule.
- Return temperature limitation as a set value (DHW) or in relation to outdoor temperature (heating).
- Pumps controlled in relation to heat demand and frost protection.
- Alarm functions and log pictures for all sensors.
- Manuel override of the individual outputs.
- Communication: Modbus (max. 20 m), ECL 485 (internal data bus).
- Connection for commissioning / service via PC
- 6 temperature sensor (Pt 1000) inputs.
- 2 application related and configured inputs.
- 4 relay outputs.
- 2 pairs of electronic output for noiseless operation of the motorized control valve.

Remote control unit ECA 30 / 31:

- Turn-push-dial, backlighted graphic display
- Integrated room temperature sensor
- Integrated humidity sensor (ECA 31 only)

1c
Main data:

- Supply voltage, 230 V a.c., 50 Hz: ECL 210 and ECL 210 B
- Power consumption: max. 5 VA
- Ambient temperature: 0 – 55 °C
- Storage temperature: -40 – 70 °C

2

Product characteristics:

- Protection class: IP 41
- DIN rail adaptor integrated
- Dimension (inclusive base part) L*W*H, 220*110*80 mm
- Ordering code no.: ECL Comfort 210, 230 V: 087H3020
- Ordering code no.: ECL Comfort 210B, 230 V: 087H3030
- Ordering code no.: Base part for ECL Comfort 210 / 210B: 087H3220
- Ordering code no.: ECA 30: 087H3200
- Ordering code no.: ECA 31: 087H3201
- Ordering code no. for application key depends on preferred application

Contact details

Online support

Danfoss offers a wide range of support along with our products, including digital information, software, mobile apps and expert guidance. See the possibilities below.

The Danfoss Design center

Discover the Design Center, our advanced digital platform that streamlines product selection. With integrated tools and enhanced type pages, it's simpler than ever to access product information and documentation, and to select the right products. Check the availability of Danfoss products at partner locations and enjoy seamless transitions from selection to purchase with our basket-to-basket functionality. Whether you're buying from our distributors or directly from the Product Store, the Design Center simplifies your experience. Learn more at: designcenter.danfoss.com.

The Danfoss product store

The Danfoss Product Store is a one-stop shop available 24/7 for our customers, no matter where you are in the world or what area of industry you work in. Browse our catalog, check product details and documentation, view your prices and product availability, and quickly finalize your purchase. Start browsing at: store.danfoss.com.

Danfoss Partner Portal/Product Data tool

Designed to support you with easy access to product data extracts, essential resources, tools, and information. The Partner Portal provides a centralized hub for product documentation, training materials, marketing assets, and technical support, ensuring you have everything you need to succeed and grow your business with Danfoss. The Partner Portal is available 24/7 at: partner.danfoss.com and is ready to support your business.

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