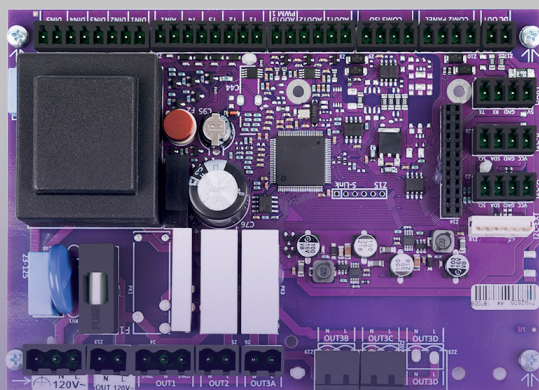




ecoVENT MINI

controller for ventilation
and recuperation units

The ecoVENT MINI controller is designed for built-in installation. Allows control of small, medium and large air handling units. Thanks to cooperation with sensors (humidity, temperature, air quality) and the use of expansion module (stepper motor, increase in the number of inputs/outputs) it allows to design the most cost-effective solution.

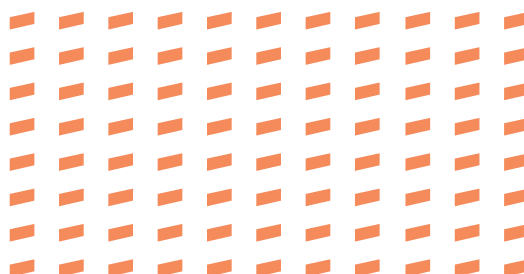
Why you should choose ecoVENT MINI?

- reduce the cost of recuperator
- activate zone control, save energy by enjoying fresh air according to real demands
- enable installers to easily connect devices with the ecoNEXT Installation Assistant and the ecoNEXT app
- connect recuperation and heat pump in a single ecoNET CLOUD system

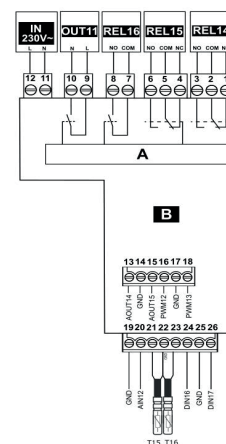
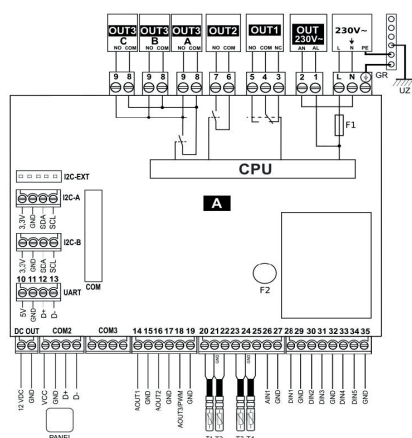
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edition
2.2, 13.02.2025

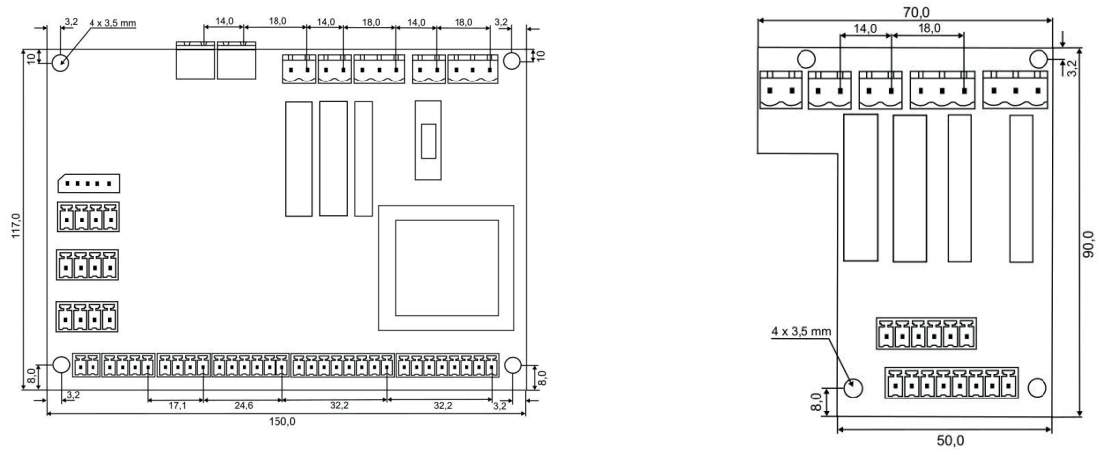


electric scheme



	executive module A	executive module B
relay outputs (potential/non-potential)	OUT1, OUT2, OUT3A - (any configuration) pre-heater, water secondary heater, electric secondary heater, chiller, cooler, bypass damper, rotary exchanger, mixing chamber actuator, supply and exhaust fans, OPERATION and EMERGENCY signals	OUT11 (potential), REL16, REL15, REL14 (potential-free) - (any configuration) pre-heater, water secondary heater, electric secondary heater, unit, cooler, bypass damper, rotary exchanger, mixing chamber actuator, supply and exhaust fans, OPERATION and EMERGENCY signals
analogue outputs (0 - 10 V/ PWM)	AOUT1, AOUT2, AOUT3/ PWM - (any configuration) pre-heater, water secondary heater, electric secondary heater, unit, cooler, bypass damper, rotary exchanger, mixing chamber actuator, supply and exhaust fans	AOUT14, AOUT15, AOUT PWM12, AOUT PWM13 - (any configuration) pre-heater, water secondary heater, electric secondary heater, unit, cooler, bypass damper, rotary exchanger, mixing chamber actuator, supply and exhaust fans
two-state inputs	DIN1, DIN2, DIN3, DIN4, DIN5 - (any configuration) pre-heater thermostat, electric secondary heater thermostat, water secondary heater thermostat, unit signals (alarm/ defrost), cooler failure, control panel signal, fire alarm system (FAS) signal, filter pressure switch signals, fan operation confirmation signal, CO2 sensor signal, humidity sensor signal, Boost signal, remote shutdown signal	DIN15, DIN16 - (any configuration)
analogue inputs (0 - 10 V)	AIN1 - (any configuration) humidity sensor / CO2 sensor / VOC sensor (PM 2.5 or PM 10)	AIN12 - (any configuration) Humidity sensor / CO2 sensor / VOC sensor (PM 2.5 or PM 10)
analogue inputs (NTC 10K)	T1, T2, T3, T4 - sensors required for proper controller's operation: supply, extract, exhaust and air intake (outdoor temperature sensor)	T15, T16 - T15, T16 - (any configuration) GHE sensor, sensor after recovery, sensor after heater
transmission channels	COM – expansion board, COM2 – control panel, COM3 – BMS/external sensors Modbus 2C-EXT/I2C-A/I2C-B – pressure sensors, digital sensors SRHT,SCO2, C module	

dimensions



technical data

ecoVENT MINI		
	module A	module B
power supply	230 VAC, 50 Hz	
power consumption	40 mA	20 mA
software	class A	
communication	2 x port communication (RS485, Modbus RTU protocol) 1 x extension port 2x I2C port	
temperature measurement range	min. -40 °C, max. +60 °C CT10 sensors (NTC 10K)	
outputs	2 x analogue 0-10 V 1 x analogue PWM (or 0-10 V) 3 x relay potential 230 V 1 x output 230V 1 x output 12VDC	2 x analogue 0-10 V 2 x analogue PWM 1 x potential relay 230 V 3 x potential-free relay
inputs	5 x binary input 1 x analogue input 0-10 V 4 x resistive input (NTC 10k)	2 x binary input 1 x analogue input 0-10 V 2 x resistive (NTC 10k) 1 x 230 V input
working temperature	min. 0 °C, max. 40 °C	
storage temperature	min. 0 °C, max. 65 °C	
dimensions	150x117x50 mm (including 9 mm spacing)	
protection degree	suitable for installation in class 1 equipment	
operating conditions	min. 0 °C, max. 50 °C, 0-100% RH (non-condensing), enclosed rooms with low dust levels	
installation method	built-in installation	
accessories	SCP V, ecoNEXT, ecoNET Cloud, ecoPRESS, SRHT, SCO2, LCD panel T5	

additional
devices



SCO2 EX1

CO2 relative humidity
and temperature sensor



ecoPRESS EX1 - 01, EX1 - 02

differential pressure
sensor



ecoPRESS IN

differential pressure sensor



SCO2 IN1

CO2, relative humidity
and temperature



SRHT IN1

relative humidity and
temperature sensor

