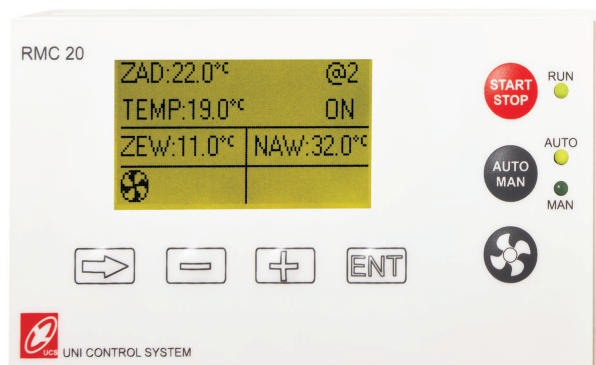


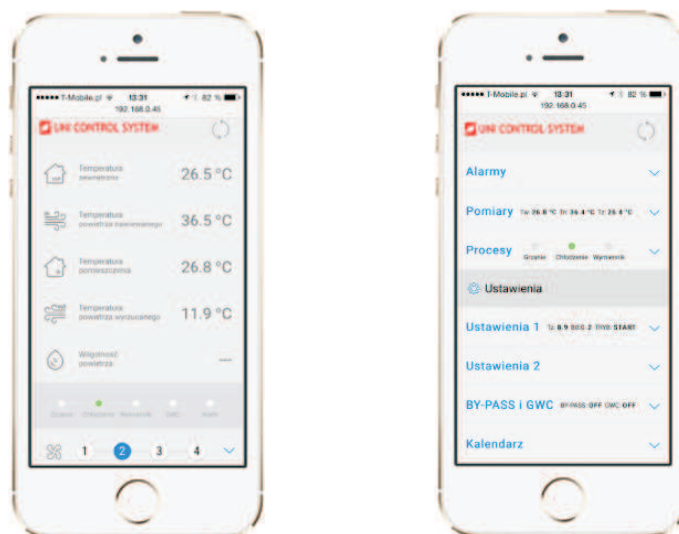
Controller for heat recovery units

ERC20

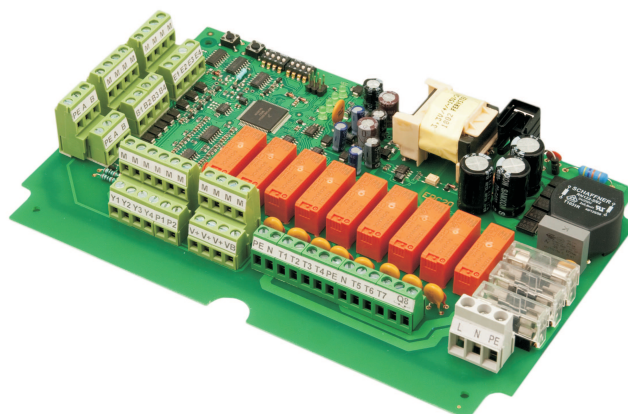
RMC20 panel for ERC20 controller



AHU control by smartphone or tablet



ERC20 controller



AHU control by smartphone, tablet, or computer:

For the controller a converter with a built-in http server is available, that enable a remote control of the AHU by smartphone tablet or computer. The communication with the AHU is done via a website with a graphic interface, so you can manage your AHU from every localisation in the world where internet is available. You can use iOS devices as well as Android or Windows one. The modern interface recognizes the type of terminal and adapts automatically to it.

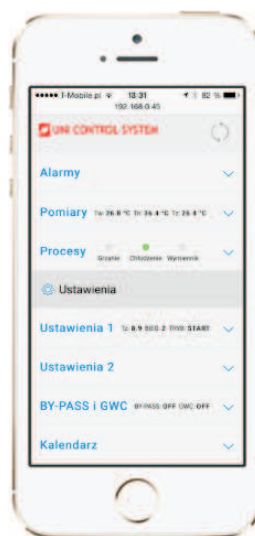
The site works under various Internet browsers like Firefox, Chrome, Safari etc ...

Sample interface pages on the iPhone:

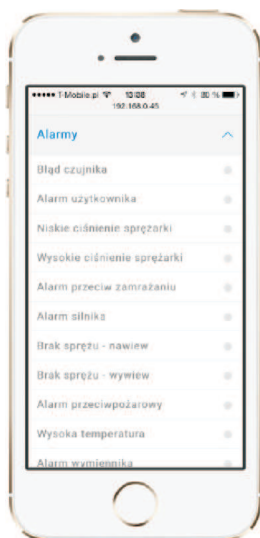
Main page



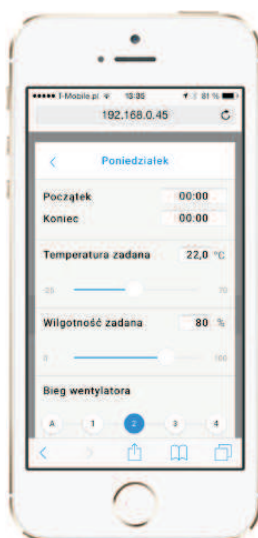
Detailed page



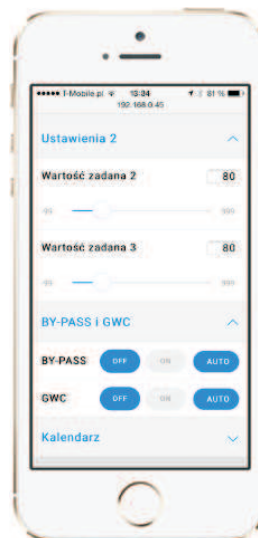
Alarms



Schedule



Bypass, GHR



i więcej....

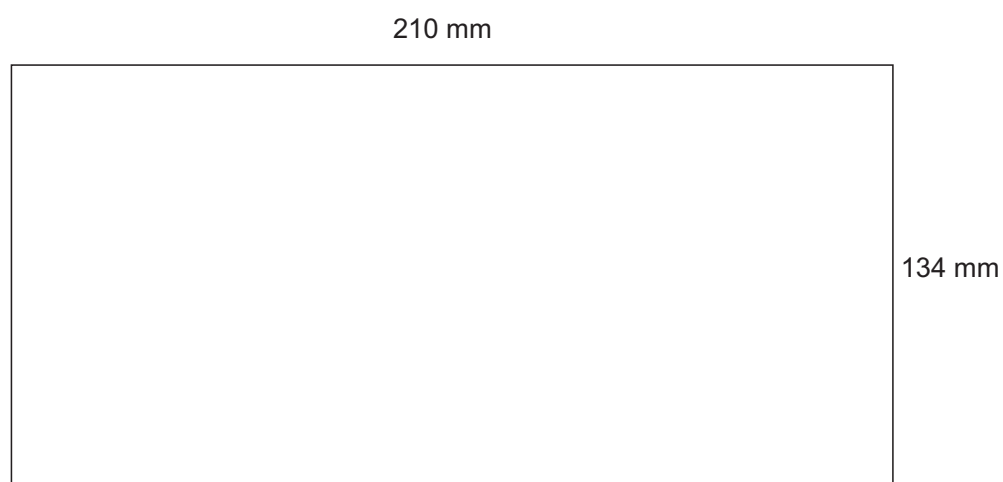
ERC 20 controller functions:

- **Fan control**
 - Control of supply and extract fans
 - Smooth fan speed control (EC) via two analog outputs 0-10V
- **Heat recovery control**
 - Bypass control
 - Exchanger protection by inlet fan speed modulation.
- **Ground Heat Exchanger control**
- **Filter alarm**
- **Temperature control**
 - Water and electric heating control
 - PWM control of electric heaters
 - Water heater frost protection
 - High temperature protection of electric heaters
- **CO2 control**
 - Possibility to connect a CO2 transmitter to regulate fan speed
- **Communication with external panel via RS485 serial link**
- **Real time clock with weekly schedule**
 - The RMC20 panel has a built-in real time clock and enable a weekly schedule setting for the AHU.
- **BMS**
 - BMS facilities by RS485 serial communication.
 - MODBUS Communication protocol
- **Remote management via Smarfon, tablet or computer**

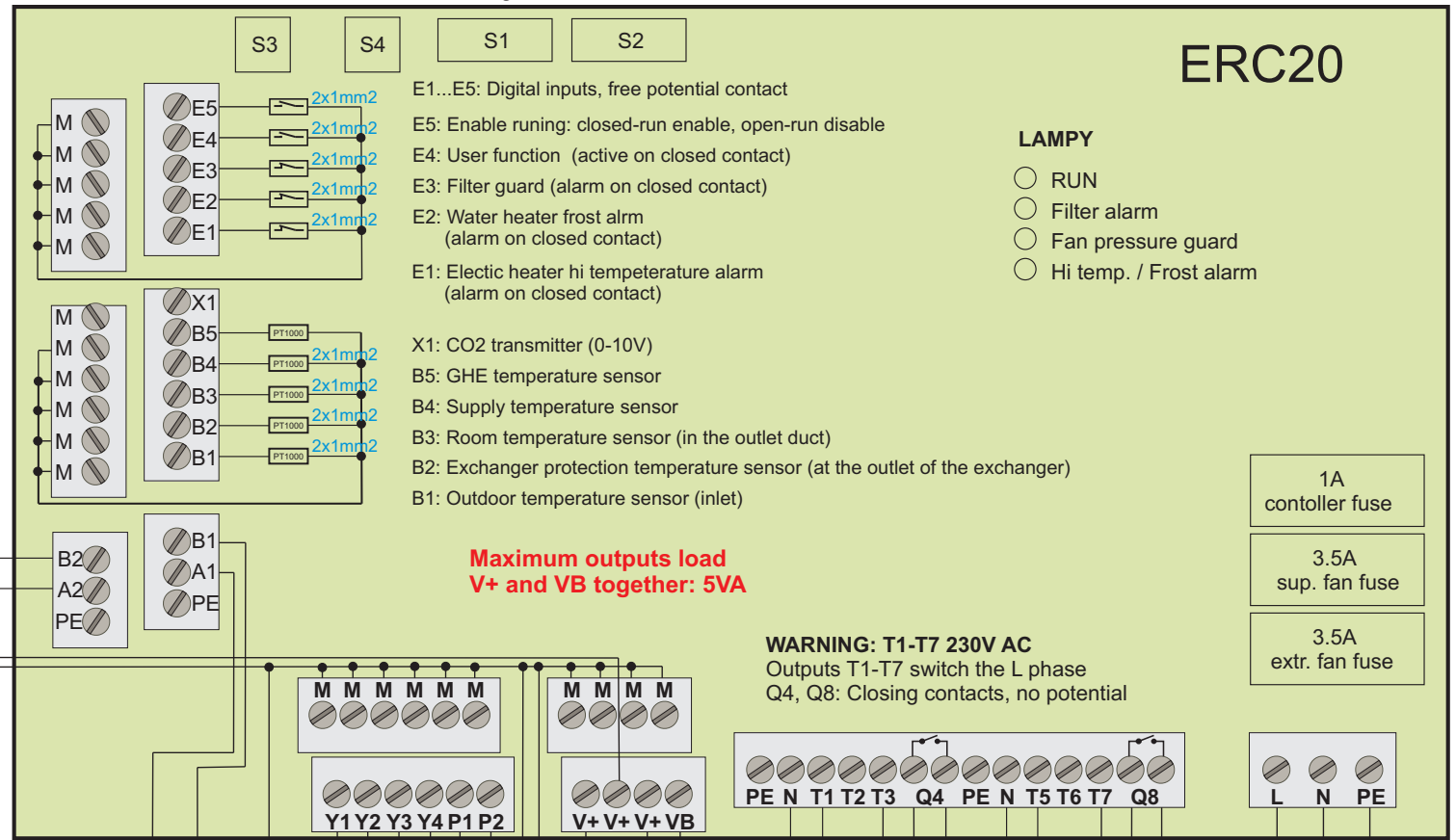
Inputs/Outputs:

Inputs	
- PT1000 Resistive inputs	4
- 0-10V Analog inputs	1
- Digital inputs	5
Output	
- Relay outputs	9
- 0-10V Analog outputs	4
- PWM outputs for electric heaters	2
- RS485 serial link	2

Dimensions of the controller without housing:

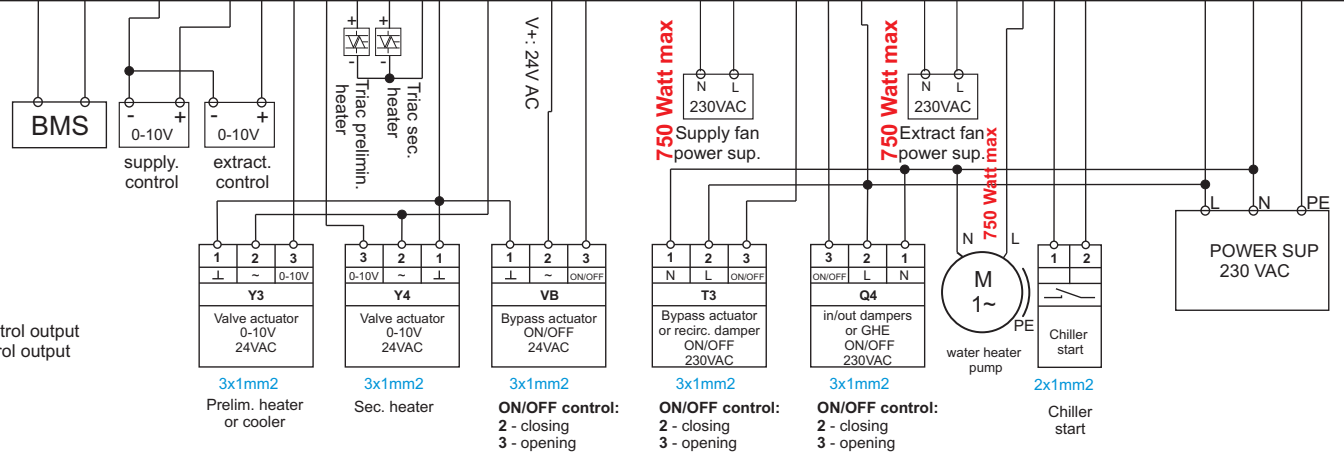


Controller connection diagram - EC fans (or inverter) and refrigeration unit

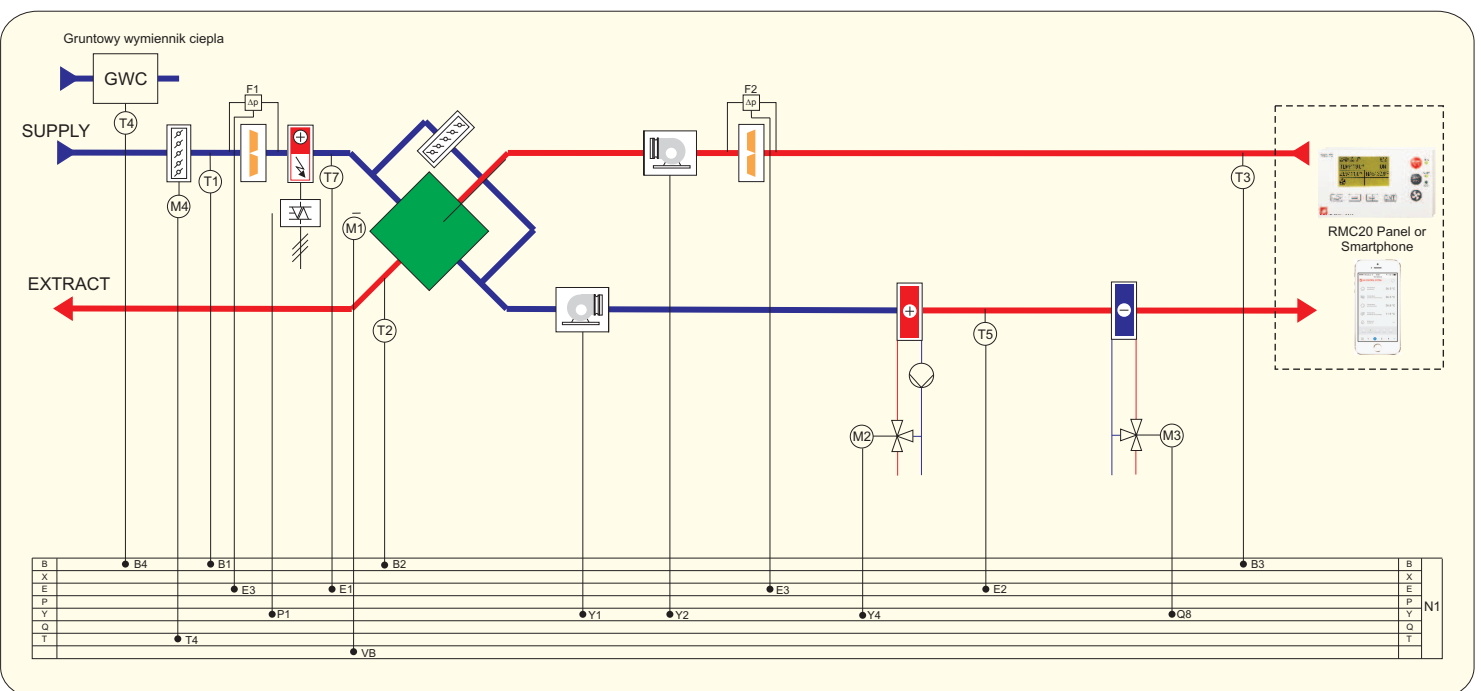
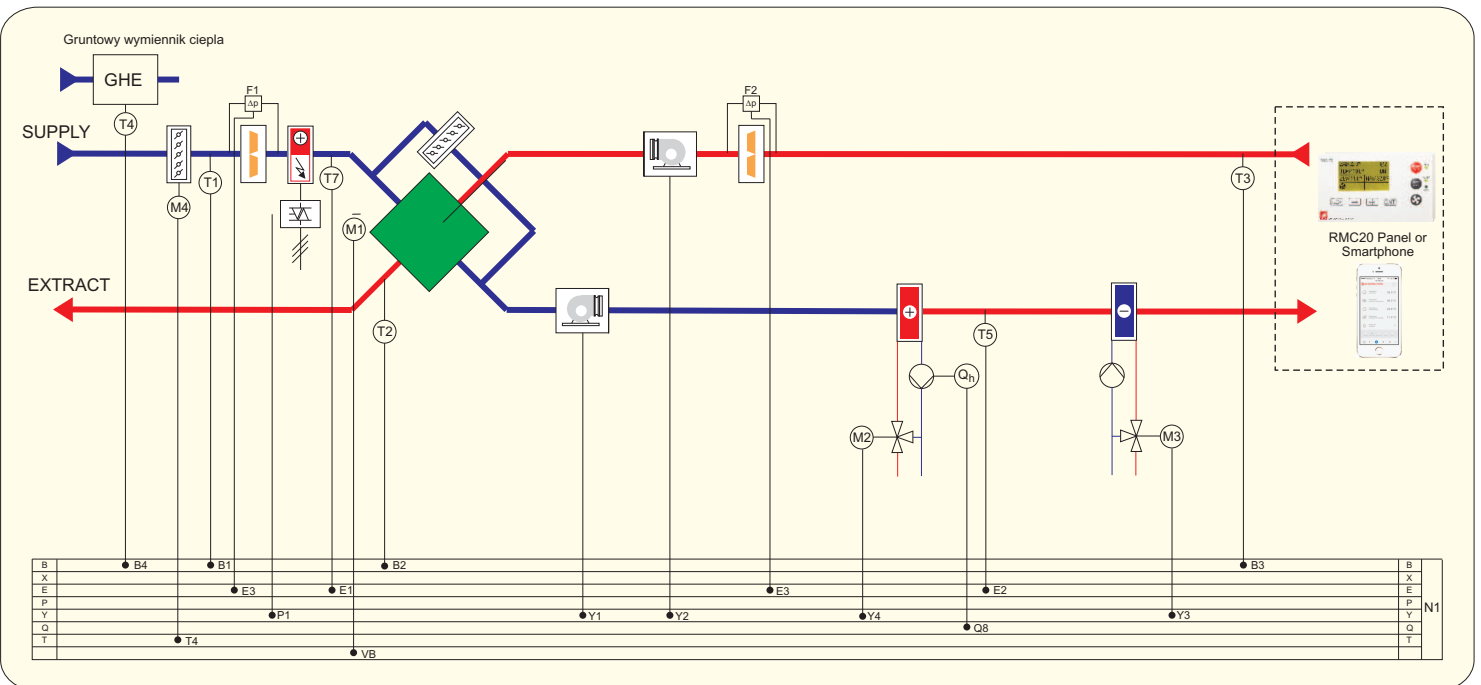


PROGRAMMING OF SWITCHES:
 0- Bottom, 1-Top

- S1-1, S1-2: 00 - 2 speed fan
 10 - 3 speed fan
 01 - 4 speed fan
 11 - EC fan - smooth speed control
- S1-3: Bottom - Water heater
 Top - Electric heater
- S1-4: Bottom - No recirculation dampers
 Top - Recirculation dampers control at output T3
- S2-1: Bottom - No bypass
 Top - AHU with bypass
- S2-2: Bottom - Opening the bypass on activation of the control output
 Top - Closing the bypass on activation of the control output
- S2-3: Bottom - Water cooling at output Y3
 Top - Aggregate coolin at output Q8
- S2-4: Bottom - No cooling
 Top - Coolin function at output Y3 or Q8



Sample applications: water heater



Examples of applications: electric heater

