Example2: house with 1 Raspberry + 6xDomBusTH + 3xDomBus12 + 3xDomBus1 + 2xDomBus31 and 1xDomESP1 Raspbian and Domoticz are free open-source software. Domoticz is a user friendly controller that is fully customizable through LUA scripts. and provides a clear web interface for PC and smartphone, and one app for Android and iOS. RS485 bus easily connect all devices by a 4 wire cable (data+power supply), cabling up to 1km and avoiding RF pollution. Night zone Roof Main bedroom External siren command + Temperature and humidity Temperature and humidity sensor tamper 1 button to enable/disable 1 button to enable/disable alarm and white led alarm and white led Button + relay output to 1 buzzer, activated in case of alarm or door bell system meteo station supply the electric heater 1 buzzer, activated in case of White led activated in case of blackout or by pushbutton alarm or door bell 1 indoor light controlled by Green/red led to check the alarm status White led activated in case of domoticz 1 external relay to command the bedroom light blackout or by pushbutton Magnetic contact sensors on 1 external relay to command the balcony light windows and blinds Green/red led to check the alarm DomBus1 **DomBusTH** DomBusTH **Bus cable**  $100-150\Omega$  resistor between A and B Cellar Garage Technical room Distance Measure water Dehumidifier level in the tank Raspberry equipped with the following software: \* Raspbian operating system (Linux) 6 sensors for doors, \* Domoticz (home automation system controller) windows and blinds \* Weewx (read data from the meteo station) Used to enable DomRelav2 1 input from the door bell garden watering \* some lua scripts, easy to customize, to manage ext. relavs 1 output for the gate door 1 output for the gate pushbuttons, heat pump, ventilation, doorbell. gate, alarm system, outdoor lights.... Everything is supplied at 12V with backup battery. 1 oudoor light
4 outputs to control ventilation, dehumidification. **DomBusTH** DomBus23 heating/cooling and air recycling IPCAMs 🐚 12V JSB harddisk Network \_\_12V for backups deo recorder Solder jumper to enable resistor between A and B 12V with fuse protection Laundry 13.6V 15A Power supply Commands for the heat pump: 5V 3A Raspberry + \* summer/winter SDM230 \* on/off DC/D6 palm (USB) energy meter Domoticz \* low power/high power \* coil/radiant temperature pulse outputs to DomBus12 Instant power energy meter A script in domoticz manages (RS485) to ESP8266 ead battery pulsed outputs the **heat pump to use most** energy from photovoltaic Electric car .12V RS485/ charge socket DomBus31 RS485 DomESP1 DomBus31 DomBus12 TTL converter (8 relays) Bus cable Kitchen Office Living room LCD display LCD display DSL Router Temperature and humidity. **Buzzer** to alert in case of **doorbell** Temperature and humidity. Temperature and humidity. Double button to force/disable Double button to force/disable Outdoor lights. or alarm activation ventilation and dehumidifier. ventilation and dehumidification. Connects 8 magnetic Red/green led to monitor power usage/production. White led in case of power outage. 1 external relay to **enable monitor** White led in case of power outage. Indoor light. Magnetic contact contact sensors (for Magnetic contact 1 external relay to reset DSL sensors for doors, 4 windows and 4 sensors for doors. External relay to supply LCD in case in case of doorbell, alarm or router in case of internet failure. windows and blinds. blinds) and 1 tamper. windows and blinds. outdoor sensors activation. of doorbell or alarm activation. DomBus12 **DomBusTH DomBusTH** DomBus12 **DomBusTH** DomBus1 (9 I/Os) Bus cable