



AUSTYN
INTERNATIONAL Ltd.

Who we are:

- Engineering company – unique solutions provider
- Producer of the control system SW + HW
- Supplier - contractor - turnkey delivery

What we do:

- Energy saving solutions based on EPC conditions, guaranteed savings
- Intelligent systems for heating, cooling, ventilation in the large spaces (BVS) (administrative and public buildings, schools, hotels, etc.
- Solutions of the control processes and used equipments
- Custom solutions – technological defrosting of coal, frost protection in industry production based on infrared technologies

Our solutions brings:

- Individual thermal management – savings achievement
- Original management method - radio communication
- Independence from the products of a particular manufacturer - the possibility to assemble a solution from a device that is effective for a specific solution

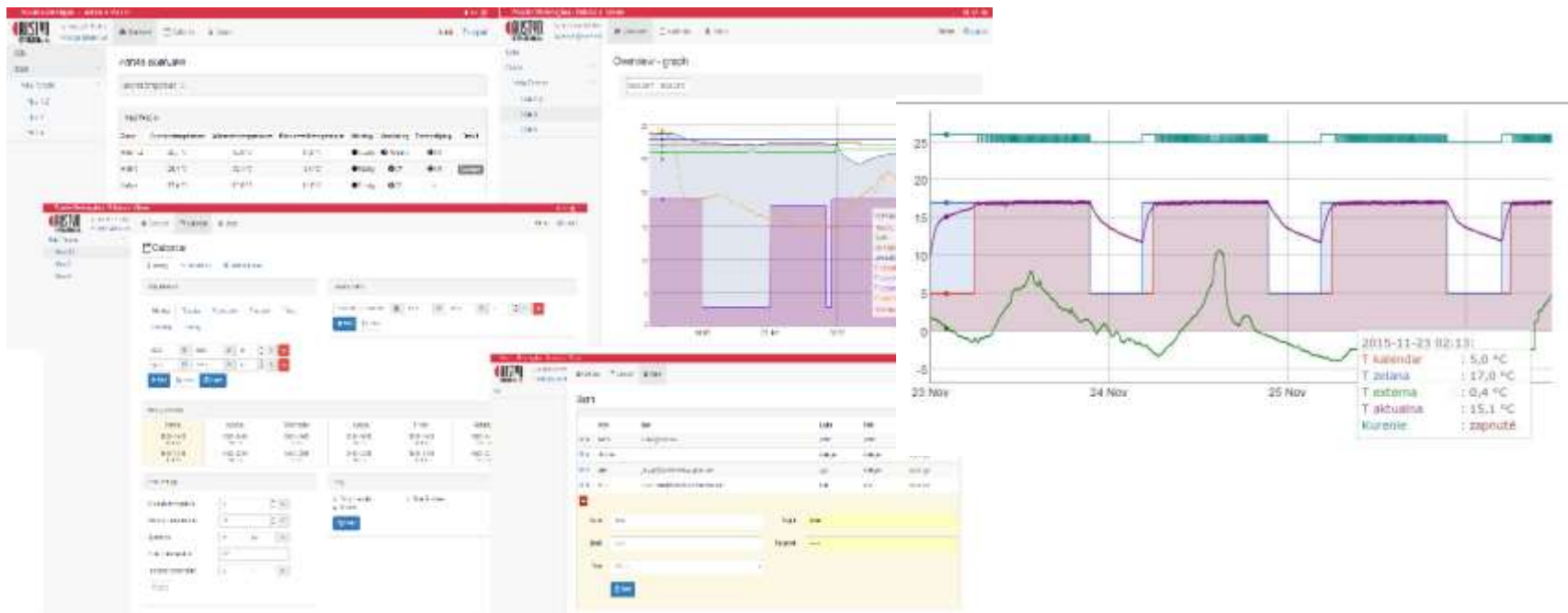
AGS III – intelligent control system for operating BVS



Products and system components

- **Control and monitoring system AGS**
 - Server (application) – Gateway (communication) – Nodes (actuators, sensors)
 - or SBC with IQRF module (application + communication) – Nodes (actuators, sensors)

- Web application based GUI (responsive design)
- Scheduler
- Charts
- Reports
- Individual control of each device
- User management
- Smart functions (Intime, Outime, Demax)
- [Demonstration](#)



- Web application GUI
- Responsive design

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Prehľad
Kalendár
Používatelia
Manuálne ovládanie
Admin [Odhlásiť](#)

Tabuľka

Grafy <

Reportovanie

Prehľad zón

Vonkajšia teplota: 15,8 °C

MONT IRP					
Zóna	Aktuálna teplota	Kontrolná teplota	Požadovaná teplota	Kúrenie	Detail
Potrubie	15,0 °C	18,8 °C	1,0 °C	🔴 Pripravené	
Žiarič 01	12,1 °C	18,6 °C	12,0 °C	🔴 Pripravené	
Žiarič 02	11,8 °C	18,6 °C	12,0 °C	🔴 Pripravené	
Žiarič 03	12,3 °C	18,6 °C	12,0 °C	🔴 Pripravené	
Žiarič 04	11,6 °C	18,6 °C	12,0 °C	🔴 Pripravené	
Žiarič 05	12,0 °C	18,6 °C	12,0 °C	🔴 Pripravené	
Žiarič 06	12,8 °C	18,9 °C	12,0 °C	🔴 Pripravené	
Žiarič 07	12,9 °C	18,9 °C	12,0 °C	🔴 Pripravené	
Žiarič 08	13,0 °C	18,9 °C	13,0 °C	🔴 Pripravené	
Žiarič 09	13,1 °C	18,9 °C	13,0 °C	🔴 Pripravené	
Žiarič 10	12,8 °C	18,9 °C	13,0 °C	🔴 Pripravené	

- Scheduler

🔥 Heating

Daily intervals

Monday
Tuesday
Wednesday
Thursday
Friday

Saturday
Sunday

00:00		05:29		21		°C	
05:30		17:00		22		°C	
17:01		23:59		20		°C	

+ Add
 Save
 Copy

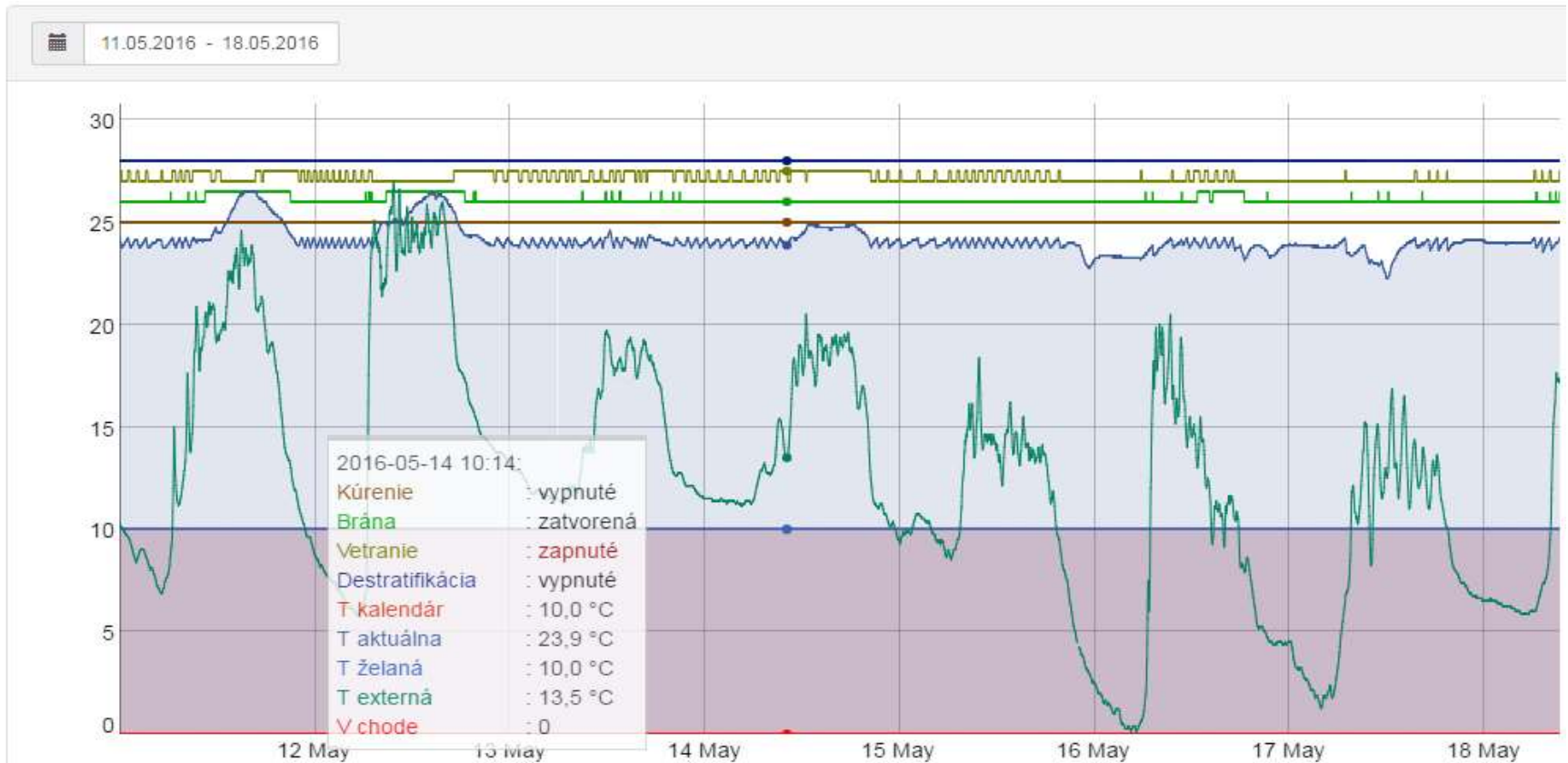
Specific dates

+ Add
 Save

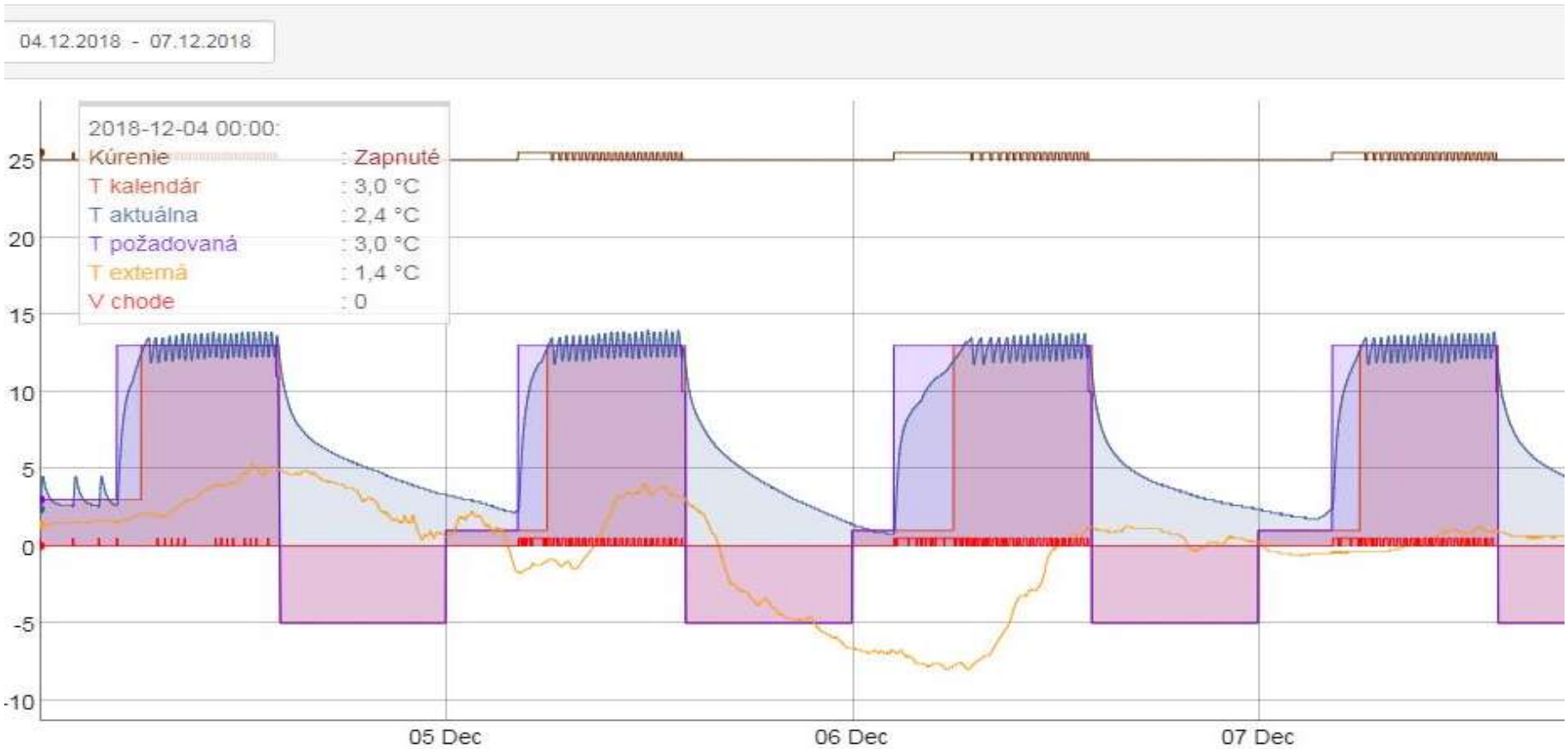
Weekly overview

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
00:00 - 05:29 21,0 °C	00:00 - 05:29 21,0 °C	00:00 - 05:29 21,0 °C	00:00 - 05:29 21,0 °C	00:00 - 05:29 21,0 °C	00:00 - 05:29 21,0 °C	00:00 - 23:59 20,0 °C
05:30 - 17:00 22,0 °C	05:30 - 17:00 22,0 °C	05:30 - 17:00 22,0 °C	05:30 - 17:00 22,0 °C	05:30 - 17:00 22,0 °C	05:30 - 14:00 22,0 °C	
17:01 - 23:59 20,0 °C	17:01 - 23:59 20,0 °C	17:01 - 23:59 20,0 °C	17:01 - 23:59 20,0 °C	17:01 - 23:59 20,0 °C	14:01 - 23:59 20,0 °C	

Control system and monitoring system RS AGS (charts)

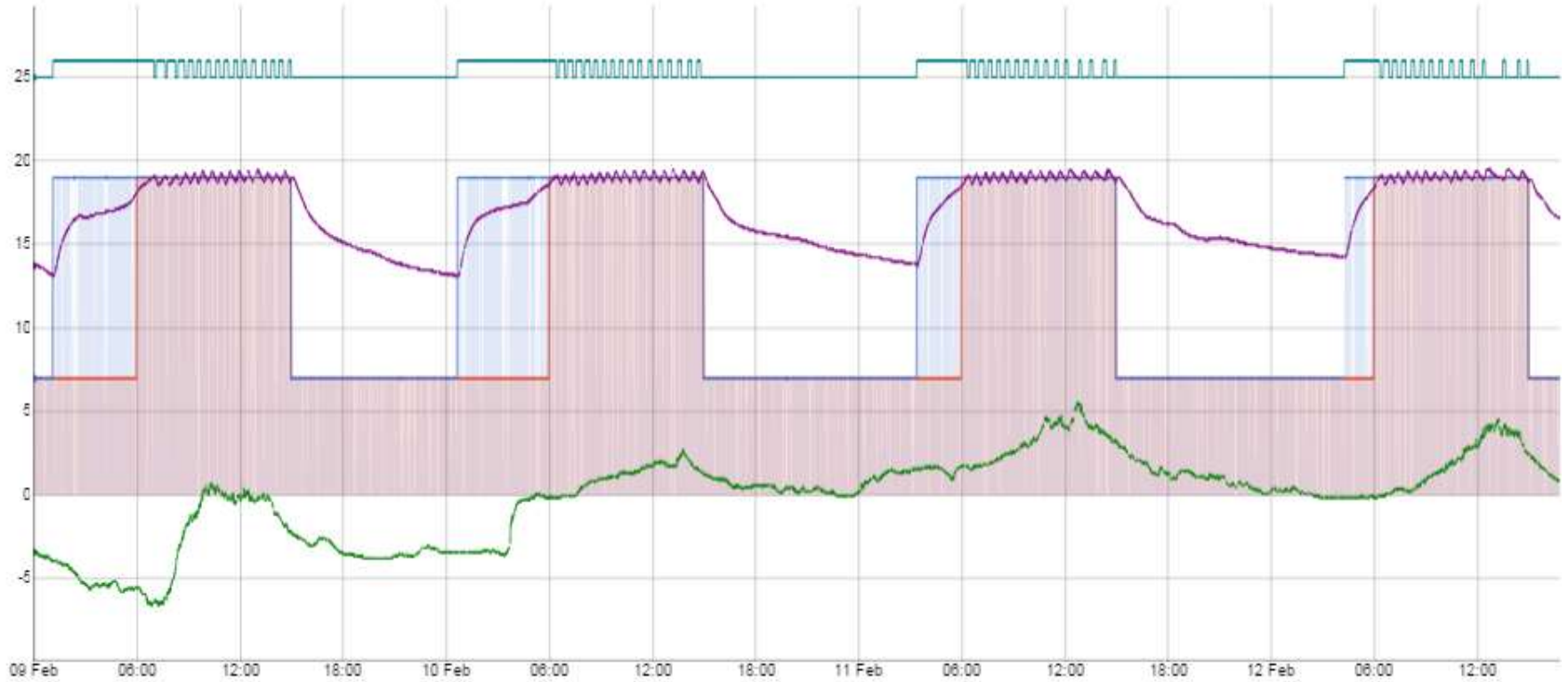


Control system and monitoring system RS AGS (charts)



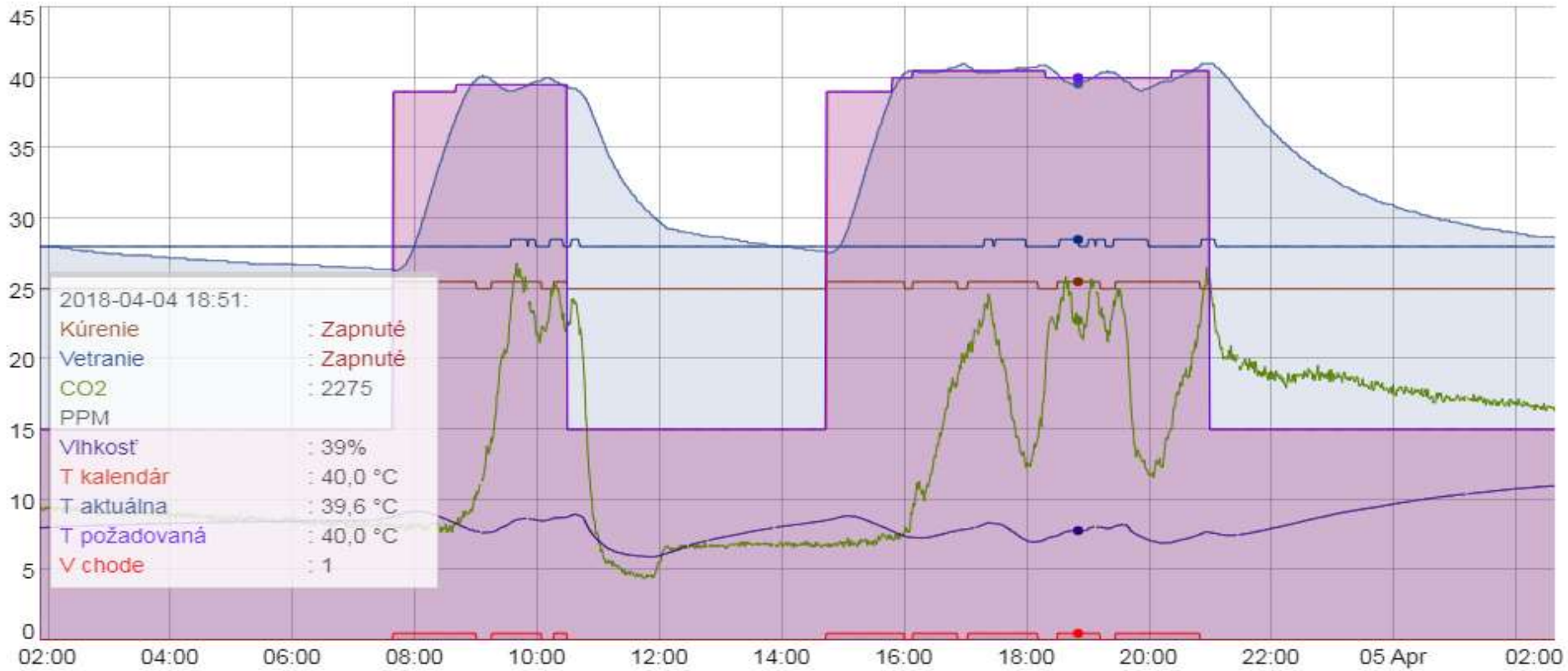
- Smart functions (Intime, Outime, Demax)

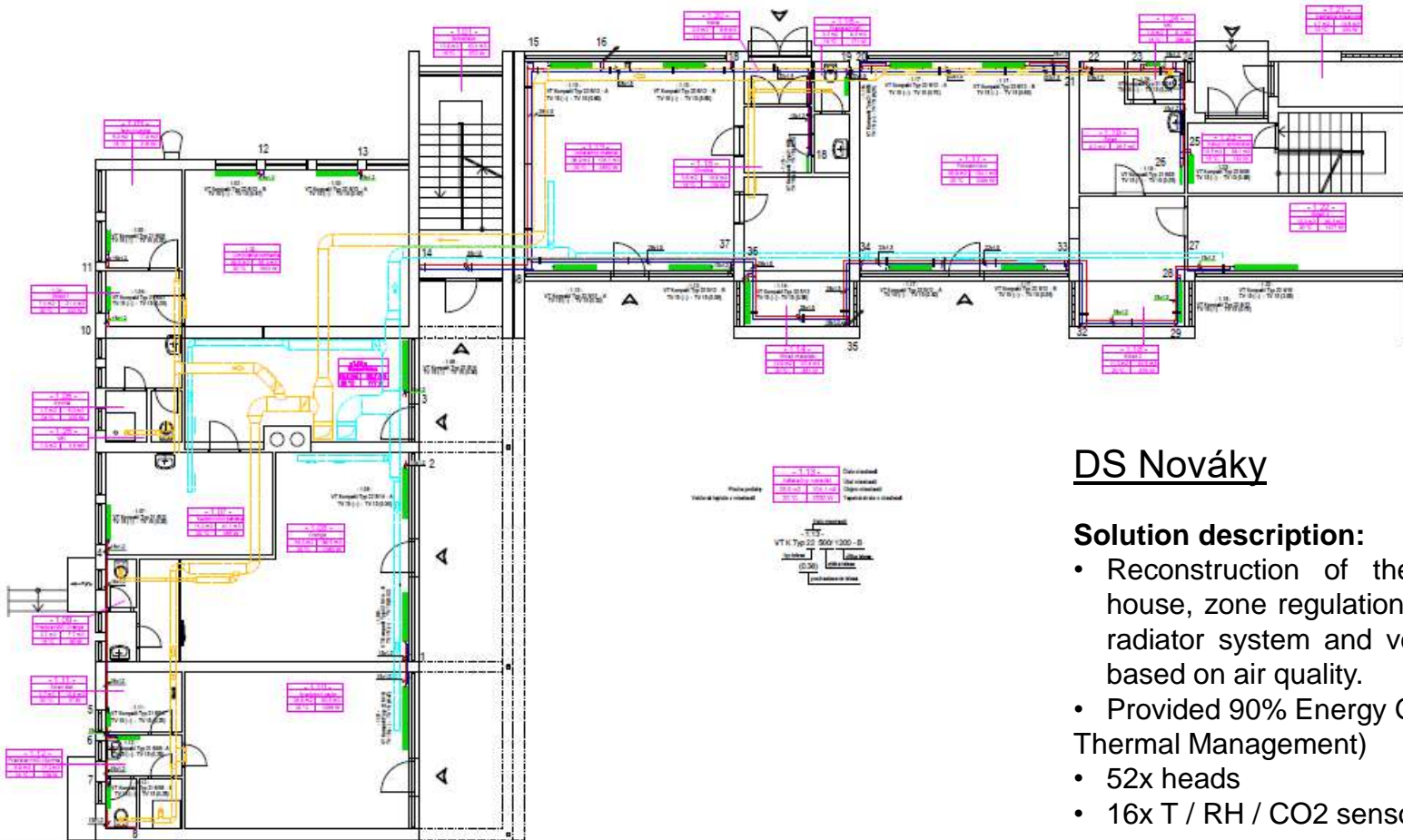
Zóna 1.05



- Smart functions (Intime, Outime, Demax)

03.04.2018 - 06.04.2018





DS Nováky

Solution description:

- Reconstruction of the public service house, zone regulation by the hot water radiator system and ventilation solution based on air quality.
- Provided 90% Energy Guarantee (50% Thermal Management)
- 52x heads
- 16x T / RH / CO2 sensors

Sports hall – Košice

Solution description:

- Reconstruction of a hot water heating system cost and operation analysis.
- Construction of electric radiant heating system for playing area and tribunes and electric conventional heating for locker rooms and other spaces.
- Despite higher unit price of electricity - costs are currently 50% lower.
- Installation of smart ventilation based on CO₂ measurement - integration of ventilation system via BACnet protocol.



Hotel Patria – Vysoké Tatry, Štrbské Pleso

Solution description:

- 194 heads 8 GW
- Installation of radiator heads in hotel rooms without any construction interventions
- Zone regulation - connected to the booking system , fully automatic operation



ZVS Sniva – arms industry, Snina

Solution description:

- Unheated BVS
- Antifreeze system in unheated space
- Profile temperature measurements



- **MAG RA** - Wireless digital thermostatic radiator head
 - Radiator valve control
 - Automatic valve adaptation
 - Internal temperature sensor
 - Wired external temperature sensor (optional)
 - Anti-calc and frost protection
 - Open window protection
 - Battery powered (2x Li-SoCl₂ 3,6V AA) with low voltage alert
 - Anti-vandal protection kit (optional)

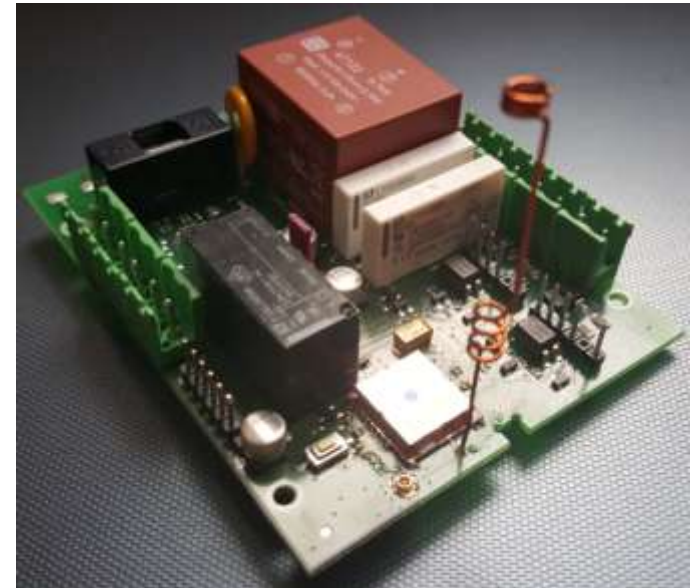


- **MAG CB (MAG CO) control board**

Module is designed as control board for various devices eg. Heaters, lights, pumps, servo-drive etc.

Board is powered form mains and contains following:

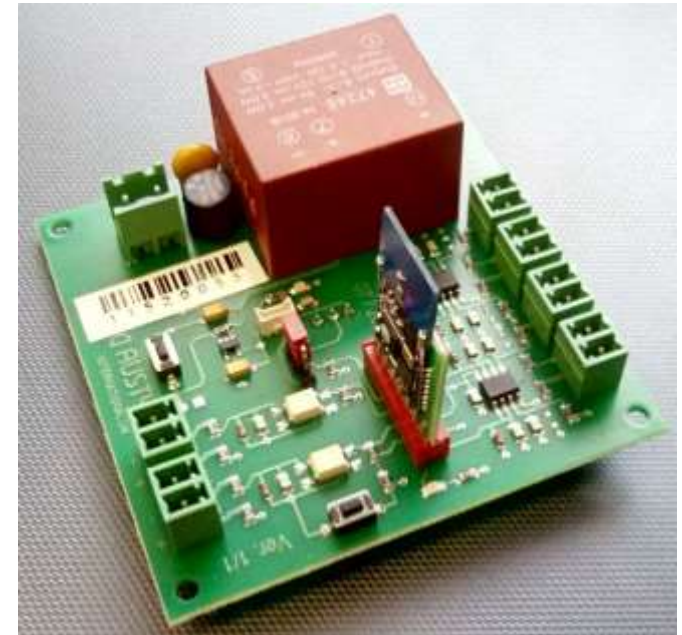
- 2(3) relays (5A/230VAC/30VDC) with LED indication
- 1 relay 8A/230VAC(10A/230VAC) output or open/close contact with optional power consumption metering
- DALLAS (DS18B20+) onboard or external – jumper selectable
- 2(1) digital inputs - 0VAC/230VAC or open/close selectable
- 1 DAC output (0 - 10V) 5bit resolution
- Bonding button with LED indication
- Reset button (not DCTR module reset) with LED indication
- DCTR-56Dx or DCTR-76Dx module



- **MAG ME measuring board**

Ready to be connected with various sensors, meters and detectors in order to work as measuring board for physical quantities such as temperature, humidity, gas detection, pressure, occupancy illumination etc. Board is powered from mains and contains the following:

- DALLAS (DS18B20+) onboard or external – jumper selectable
- 4 ADC inputs (0-10V) 8bit resolution
- 2 Digital inputs - 0VAC/230VAC or open/close selectable
- Bonding button with LED indication
- Reset button (not DCTR module reset) with LED indication
- Slot for DCTR-56Dx or DCTR-76Dx module



Thank you for your attention

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we looking forward for future cooperation.