



VFN PRAHA

VŠEOBECNÁ FAKULTNÍ
NEMOCNICE

JISTOTA MODERNÍ MEDICÍNY



Operation and development of the sensor network in the General University Hospital in Prague



What and why do we measure

- Temperature
- CO₂
- Laboratories and warehouses
 - Fridges, freezers, rooms
- Waiting rooms and surgeries
 - CO₂



What do we use

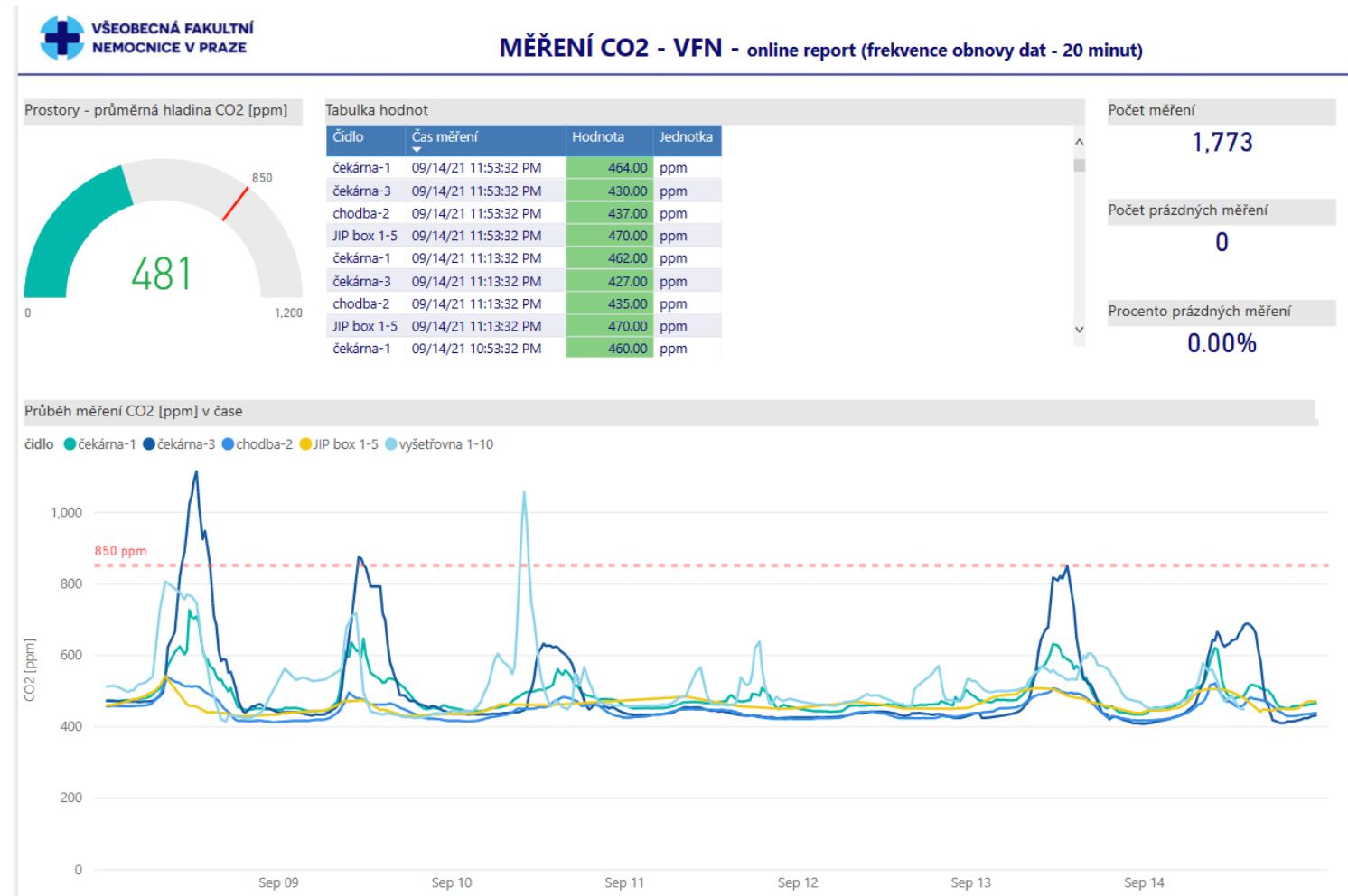
- GW's
 - Aurora
 - UniPi
 - Our developed devices
- Sensors
 - IQ Home
 - Microrisc
 - Protronix
 - Hardwario
 - Our developed devices





Microsoft Technologies

- Azure
 - IoT hub
 - AZ function
 - Logic app
 - Service Bus
 - Stream analytics
- Data
 - MS SQL
 - Blob storage
- Power platform
 - Power Apps
 - Power Automate (flow)
 - PowerBI
- Notifications
 - E-mail
 - MS Teams
 - Adaptive cards
 - CallBot





Microsoft Technologies

Flow 05.02 12:27



Test no data from sensor

Test no data from sensor with acknowledgement

There are no data from Chladící box 1.

Other data about the problem follows.

Areál A4

chladící box

I. patro

gw3

(1.09)

2019-12-03T05:53:08.030055

Now waiting for the acknowledgement

Acknowledged

Ocásek Filip, Bc. (12564@vfn.cz) used Microsoft Flow to automate this notification. [Learn more](#)

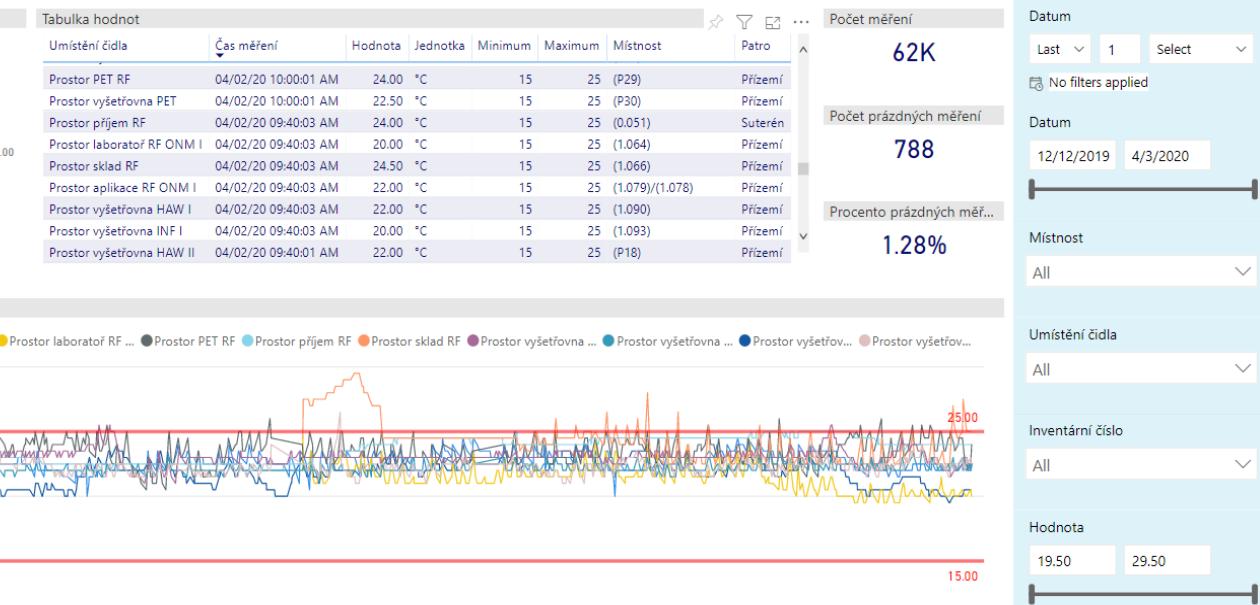
[Submit](#)



PROSTORY - UNM - online report z teplotních čidel (frekvence obnovy dat - 20 minut)

Poslední aktualizace

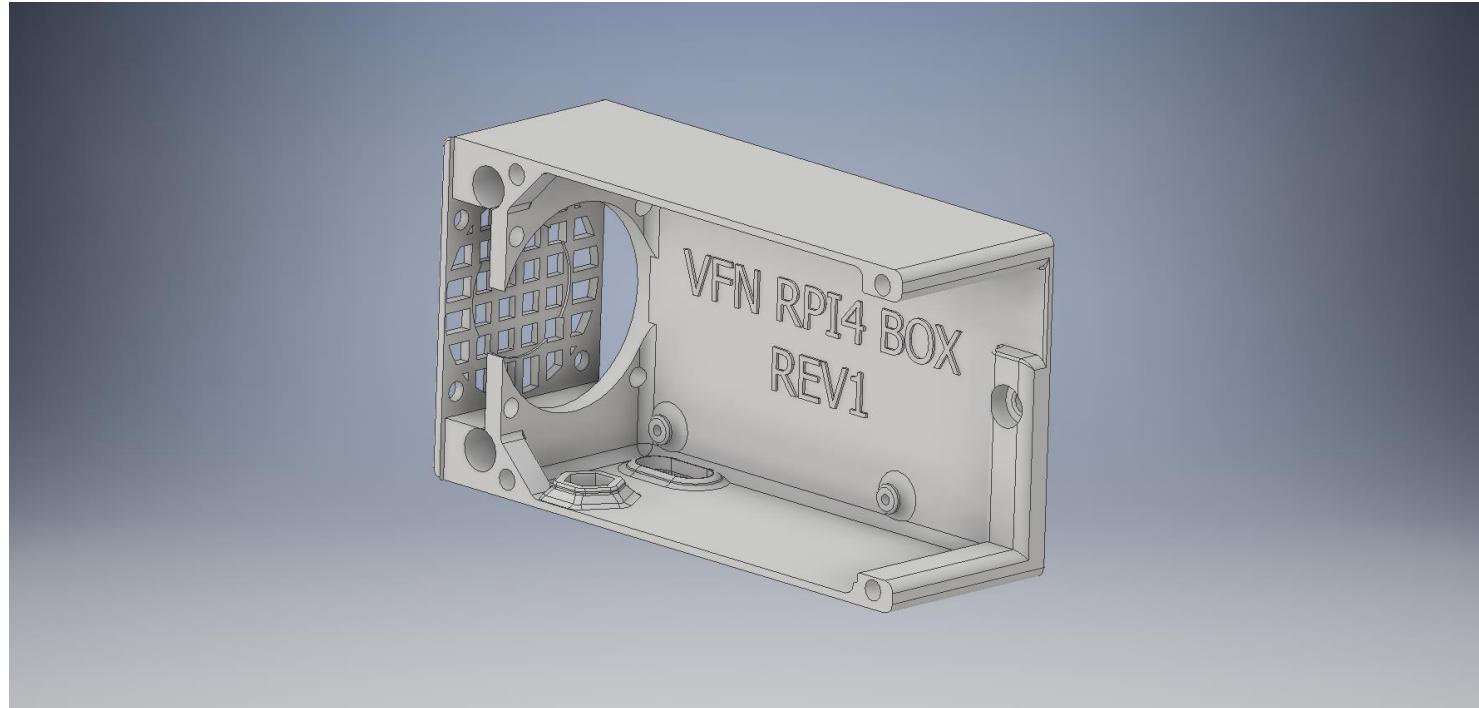
04/03/20 11:40:03 AM





Our development

- Sensors
 - Freezers -80°C
 - RPi zero
- Gateways
 - RPi 3 & 4
 - 3D printing





What are we working on now

- Room airflow
 - Offices
 - Patient rooms
 - Surgeries
- Freezer sensors
 - Connection with IQRF network
- WebApp



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Thank you