

Building Automation



Customer: ČEZ a.s., Powerplant Ledvice
Year of implementation: 2012
Country: Czech Republic

Building Automation in Ledvice Powerplant

Powerplant Ledvice is situated in Czech Republic, between the spa towns of Teplice and Bilina. The power plant was constructed in the period of 1966 – 1969, with the total power output of 640 MW.

As the service staff of the service building in power plant Ledvice experienced some unexpected failures in the existing SCADA system based on CompactLogix controller, they looked for a device that could be easily installed next to the current control system and support trouble-free, reliable and efficient operating and monitoring of the building air-conditioning. The operators requested advanced and user-friendly system visualization for display and diagnostics of actual processing and operating status.

mySCADA Box was effectively combined with the control system. All visualizations were created in mySCADA Editor and loaded into mySCADA Box as well as into iPads that serve as mobile touch-screen operators' panels enabling 24/7 control of the system. The entire system can be accessed remotely via 3G/4G connection.



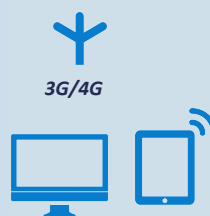
mySCADA Box

- advanced HMI interface
- multiple PLC protocols
- data logging up to 28mio of records
- complex alarm system
- trends, reports, data analysis
- secure user access
- visual programming
- box side scripts
- integrated secure web server
- advanced routing options
- 3 types of VPN tunnels
- remote access
- integrated 3G/4G modem
- CISCO VPN compatible

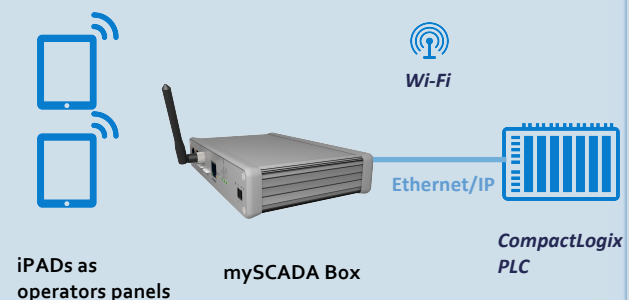
HARDWARE PARAMETERS

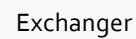
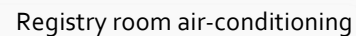
Dual core 1.0 GHz CPU (Cortex A9 with ULP GeForce GPU)
512 MB DDR RAM, 1GB industrial NAND Flash
up to 3x10/100 Mbit Ethernet interface
up to 4xRS232 and 2xRS485 serial ports
micro SD card
3G/4G modem with dual SIM option
12-48 VDC
Industrial temperature range on request

REMOTE ACCESS

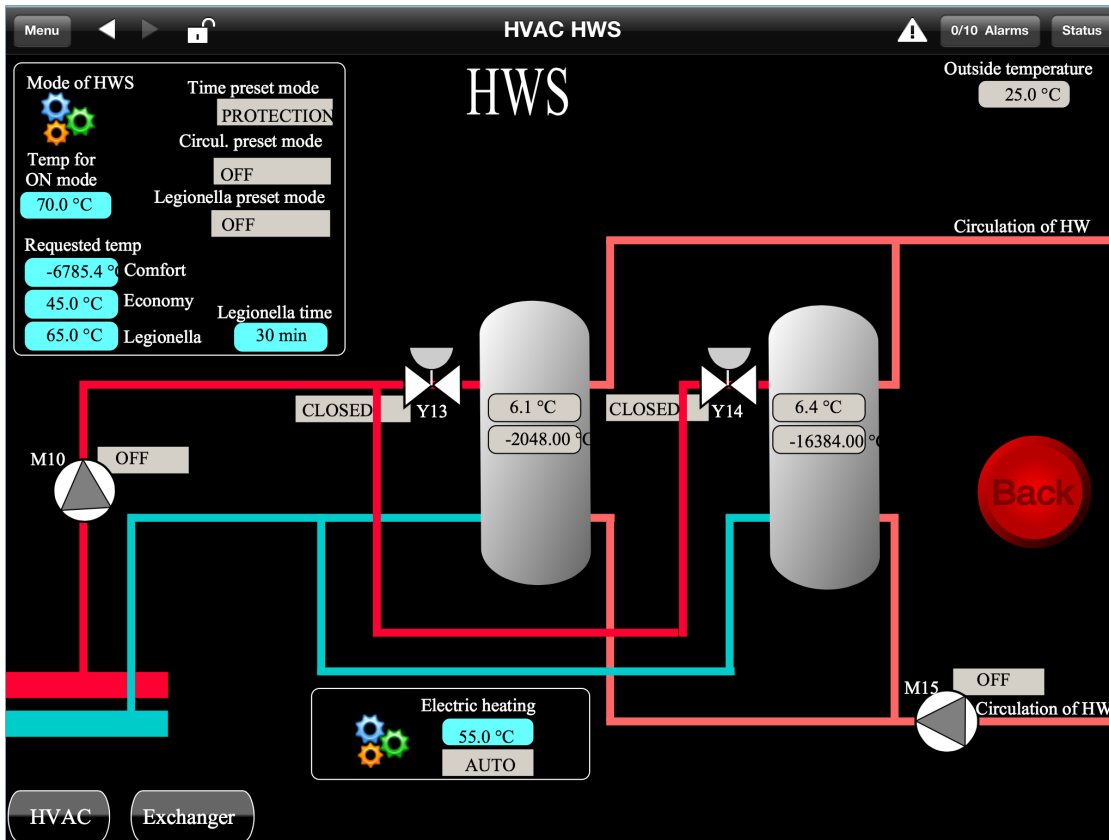


LOCAL CONTROL

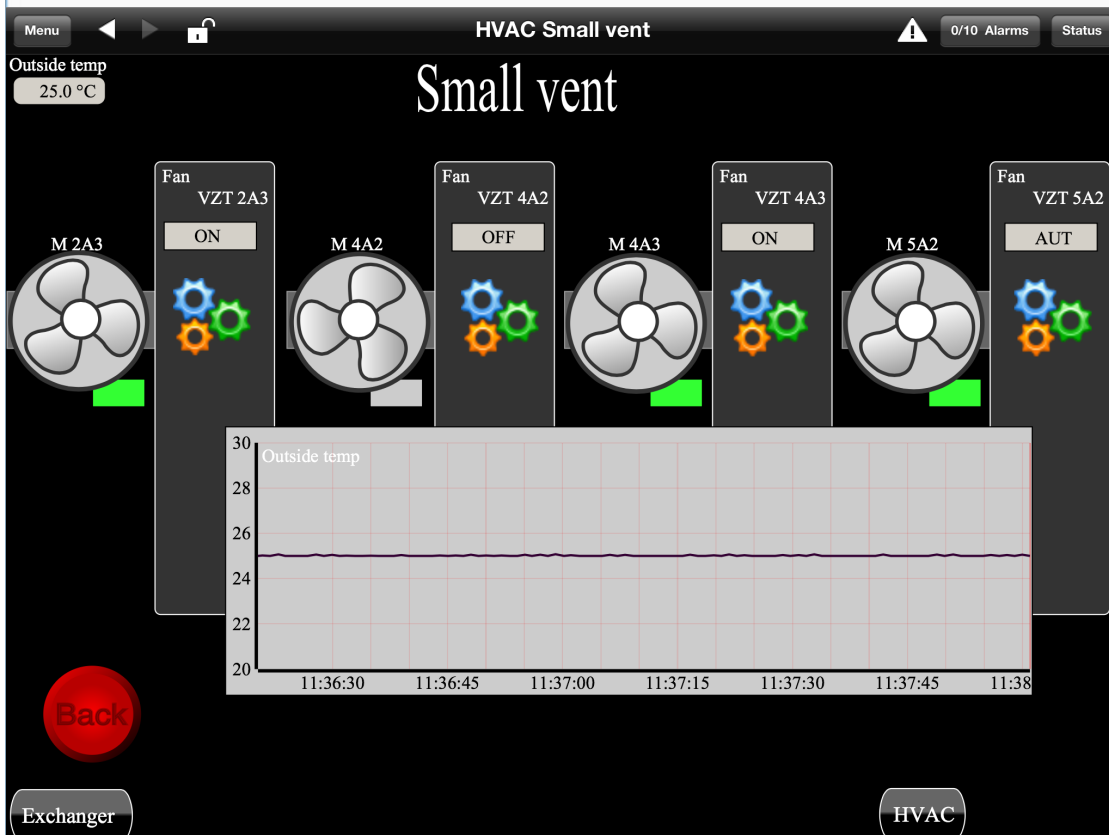




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Hot water circulation



Small ventilation