

## A Scrubber – air filtration system 36 kW.



Picture 1. External view

The device is dedicated to control an air filtration system in Hot-Dip Galvanizing plant. During the process of the galvanizing a number of harmful compounds is formed. It is necessary to close the process in a sealed capsule and treatment of polluted air.

During operation the device reads state of level, conductivity and pressure sensors. It controls a 30 kW fan, a 5.5 kW pump and some solenoid valves.

There are a Siemens PLC S7-1200 and Siemens KTP600 HMI installed in the system.

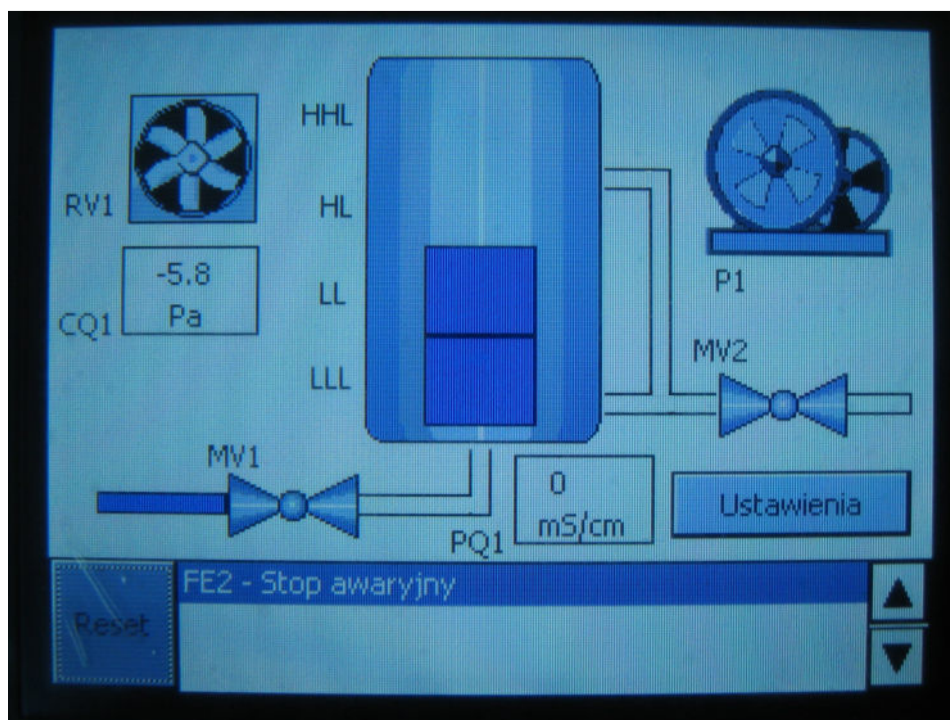
Key features:

- ✓ Maintaining an adequate level of water in the scrubber tank.
- ✓ Variable speed 30 kW fan depending on the measured pressure in the galvanizing capsule. There is a possibility to change the characteristic of speed as a function of the measured pressure.
- ✓ Monitoring of contamination of water used for air filtration.
- ✓ Water replacement process in the scrubber tank.

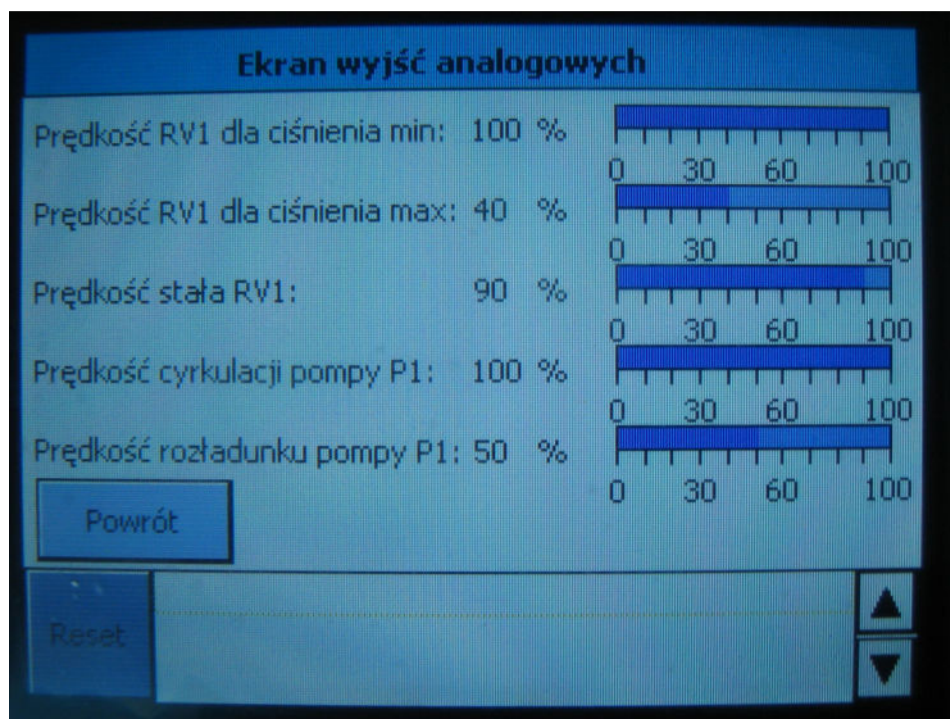
- ✓ Process visualization on the HMI.
- ✓ Alarms list.



Picture 2. Internal view



Picture 3. Process visualization.



Picture 4. Drives speed adjustment