

Main Electric Box

The electric box for the painting-drying booth is assembled in a Rittal steel case with electric devices Eaton, SchneiderTelemecanique, Siemens. The command and control for the blasting, painting and drying operations is made with a Siemens microcontroller S7. Carefully developed software ensures optimum operation of the equipment. The electric box is manufactured in accordance with the standards EN 60204-1, EN 50081-1, EN 50081-2.



The electric box is designed to command and control equipment for 2 halls:

- abrasive recovery equipment (cleaner, dust filter for cleaner, elevator, V-Belts)
- 4pcs electric boxes for supply and exhaust units TSV
- 4pcs electric boxes dust filters for ventilation
- The safety system is wired, data transfer by profinet.

Following functions are designed:

- Start-stop devices in automatic mode, ventilation prepare blasting, blasting, prepare painting, drying
- Start-stop devices in automatic mode, abrasive recovery.
- Manual mode for service reason (supply and exhaust units TSV)
- Monitoring faults, total hours, silo level, etc.
- Monitoring hall humidity and temperature, outside humidity and temperature, LeL level when painting/drying
- Parameter changing (with user name and password)
- Profinet data exchange with equipment local electric boxes

Benefits

- Main power switch
- Emergency stop button with remote contacts for local electric boxes
- Control tension lamp
- Command tension reset with locker
- Service button inside the electric box
- Command tension 24Vdc, 24Vac
- Display HMI color touchscreen Siemens
- Exterior lamp LED 3 colors, green ventilation on, orange blasting on, red fault.
- Emergency stop connection to customer free relay contacts
- LeL % explosion level measuring 2 channels (during painting and drying)
- Free relay contacts and inputs for customer request