

# Alarm and control unit FP4

spectrosys 

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## Product features

- Alarm and control unit for max. 10 digital inputs (e.g. contact pressure gauge or pressure switch), 8 analogue inputs (e.g. pressure transmitters or weighing scales) and one additional input for an external external 2 channel emergency shut off
- The unit may be used for 1 purge system including 3 pneumatic valves and 1 more individually programmable pneumatic valve
- User selectable ACV (pn. operated cylinder valve) option or Extra Downstream EMO option
- User adjustable vent timer, pressurisation timer and purge cycles
- Touchscreen operation: all operation from ergonomically positioned Human Machine Interface
- Industrial PLC controls all inputs and outputs as well as analogue signal processing
- 2 optential free outputs (warning/error)
- Communication options: Ethernet and Modbus RTU
- Solenoid valves can be manually operated
- Daylight visible LED indicators
- Acoustic signals can be silenced
- Digital inputs to be configured for NO or NC contacts
- All parameters and signal configurations can be programmed with the touch panel at the front of the unit
- Plastic housing IP 65 for wall mounting
- Emergency shut off
- Password protection for 3 superior levels of access
- Multiple Language Support: German / English
- According to Low Voltage Directive 2014/35/EU

## Technical data

### Housing

|                   |                    |
|-------------------|--------------------|
| Protection class: | IP65               |
| Dimensions:       | 450 x 340 x 225 mm |

### Compatible Inputs

- mechanical switches
- electr. switch PNP/NPN (DC only)
- analogue sensors (4-20 mA)

### Outputs

|                           |       |
|---------------------------|-------|
| max. switch-able voltage: | 230 V |
| max. switch-able load:    | 8 A   |

### Pneumatic output

|                     |                |
|---------------------|----------------|
| Actuator pressure:  | max. 7 bar     |
| Actuator connector: | for hose Ø 4mm |

### Power supply voltage:

|               |                         |
|---------------|-------------------------|
| max. current: | 110-240 V AC / 50-60 Hz |
|---------------|-------------------------|

### Communication

- RJ45 TCP/IP
- Modbus RTU

## Applications in explosive environment

The control unit FP4 must be mounted *outside of explosive environment*. Inductive sensors, which are installed inside hazardous areas, have to be activated by an ATEX-approved switch amplifier. This amplifier also has to be mounted *outside of explosive environment*. The output contact of the switch amplifier can easily be connected to the control unit.