

Description

VentilationAlarm EP1 / ES 966 is a multi-functional alarm with both light and audible alarm signal.

EP1 is equipped with battery backup, output relay and pressure sensor for control of ventilation systems, local exhaust ventilation and the like. EP1 has a green operating LED and red LEDs for alarm. It also has a button for muting the audible alarm. The mute function does not effect the visual alarm signal.



EP1 can function as:

- Pressure Guard in pressure area 20-2000Pa (using the built-in pressure sensor).
- Signal Guard (0-10V signal from an external sensor, e.g. flow or RH, not included).
- Temperature Guard (External NTC-resistor must be connected, not included).

Factory setting is Pressure Guard.

EP1 also comes with an output relay which e.g. can be used to activate a secondary alarm lamp, rotating light or other external equipment.

Warning

-  Contact hazard. Take care of live parts (230V AC) in the device during installation and setting
-  ESD-Sensitive when the lid is removed. Make sure to be ESD discharged before installation.

Mounting

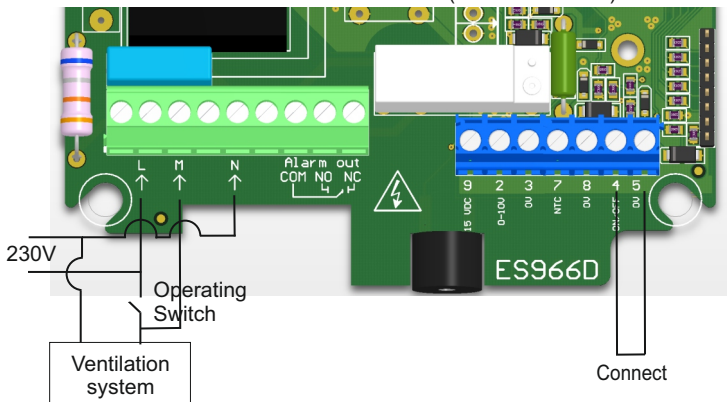
Must be mounted on a vertical, fixed and non-vibrating surface in a non-condensing environment. Do not place in direct sunlight.

Note: VentilationAlarm EP1 is IP53.

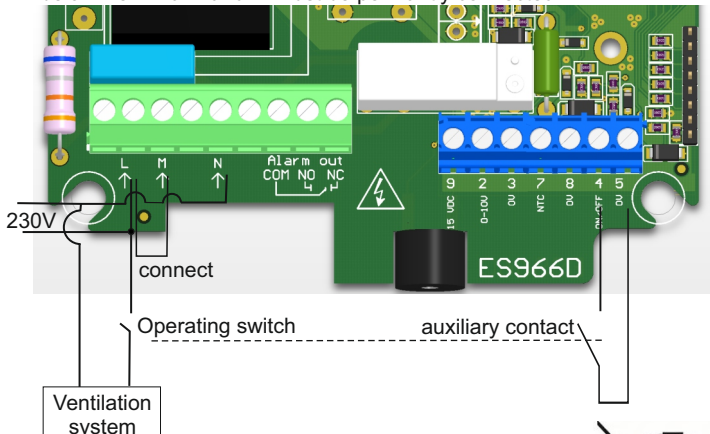
Terminal Connections

VentilationAlarm EP1 should be connected so it turns on and off with the monitored system. It is therefore an advantage to also use the switch turning on the system as an operating switch for the alarm. However, it is possible instead to use a low voltage operation switch (an auxiliary contact). Thereby there are 2 options for obtaining operating signal;

Either through the voltage supply for the system, as illustrated below. Terminal 4 and 5 must then be connected (ON/OFF and 0V).



Or a potential free contact is inserted between terminal 4 and 5, as shown below. Terminal L and M must be permanently connected.



QR-code for
download of manual



Pressure Guard, set-up

1. Connect electricity according to diagram (Note; terminal L must be connected to constant voltage).
2. Connect battery, pressure tube from duct and if applicable external equipment to relay.
3. Start exhaustion at lowest power, where alarm is not required.
4. Turn the arrow on the disc clockwise until alarm turns on. Then turn the arrow slowly counter clockwise until alarm stops. Set point is now set at no-alarm at normal pressure and alarm at failing pressure.
5. Note, when starting the system the audible alarm is deactivated the first 30 seconds to avoid audible alarm during start-up of ventilation system.

Output Relay Mode:

ALL OK: Connected between COM and NC. Only green operating LED is lit.

Error, Low Pressure: Connected between COM and NO. Red alarm LEDs flash and audible alarm beeps. Muting the audible alarm does not effect the relay mode.

Error, Power Failure: Connected between COM and NC, green LED is turned off. Red alarm LEDs flash and audible alarm beeps slowly (approx every 12 seconds) for 6-8 hours depending on power on the inserted battery.

Additional Functionalities etc.

To learn about additional possibilities, error and warning descriptions, ModBus connection, alarm signals etc. please refer to the complete manual which is found on our website or by scanning the QR-code in lower left corner on this product sheet or directly on the product.

Technical Specifications

Supply Voltage:	230V AC \pm 10% 50/60Hz
Enclosure:	IP53
Dimension (HxWxD):	122x120x55mm
Humidity:	0-80%RH non-condensing
Operating temperature:	0°C to +50°C non-condensing
Battery backup:	9V 6LR61 (lasts up to 6-8 hours)
Relay:	5A AC1
Output Voltage:	12-15V DC maks. 50mA
Measurement Area, Pressure:	20-2000Pa
Signal/Sensor connection:	0-10V signal or NTC 22K
Sound Level:	>85 dBA @ 10cm

Date: 22/08-2023
 Drawn by: DF
 Document No.: 950-208897 VentAlarm_EP1_ES966 ProductSheet
 Rev.: 1.0
 Manufacturer: **LS Control A/S**, Industrivej 12, DK-4160 Herlufmagle

