

In conjunction with evaluation board AWK 880.....

Rules for installation, commissioning, functional testing, maintenance, inspection, repair

1. Assembly

During the assembly of the detector, the optical viewing angle must be considered, he is:

- ◆ horizontal 90°
- ◆ vertical 90°

Moreover, the sensitivity to the sides decreases towards.
Therefore align the flame detector directly to the monitored object.

In heavily polluted areas, the detectors should be mounted so that it is ventilated with fresh air as possible. Thus can't form dust or oil deposits on the sight glass.

2. Evaluation board

The evaluation board has the function to supply the flame detector with operating voltage and to evaluate the coming signals from him.

2.1 Signaling of fire alarm

The "Fire Alarm" messages from the flame detector are processed and evaluated by the evaluation board. The "Fire Alarm" is signaled by a relay.
The fire alarm can only be reset with "Reset".

2.2 Voltage monitoring

- ◆ In a case of failure of the 24 V DC supply voltage of the evaluation board,
- ◆ in a case of failure of the operating voltage for the detector and electronics,
- ◆ in a case of failure of the operating voltage for the UV tube in the detector,
- ◆ in case of interruption of the cable between the detector and evaluation card,

"Fault" will be signaled by a relay that is energized in normal case.

2.3 Pollution monitoring

With the potentiometer R21 the switch point is set, in which a failure should occur. It is to proceed as follows:

1. Clean the sight glass and optical lens of the detector.
2. Screw the potentiometer R21 slowly clockwise with a screwdriver until "fault" is signaled. Then slowly turn counterclockwise until no "fault" is signaled more. Then screw the potentiometer by 90° counterclockwise.
3. Cover the sight glass of the flame detector with transparent film or similar. "Fault" must be signaled.
4. The "Fault" will be signaled, too, if:
 - ◆ the light bulb in the detector is defective,
 - ◆ the phototransistor in the detector is defective,
 - ◆ the operating voltage for the detector has failed,
 - ◆ the signal line from the detector to the evaluation card is interrupted, or
 - ◆ the relay is defective.