

# Operating manual WRIST STRAP MONITOR

Order numbers: **C-193 2334** (4,5 mm press stud), **C-193 2331** (10,3 mm press stud)

**The system consists of two parts: monitor and adapter**

## Mounting and wiring

A 9 V adapter with fixed voltage and a 3,5 mm stereo jack serves as power supply (external positive pole).

Connect the stereo jack with the monitor and plug the adapter into the power socket.

It is recommendable to mount the monitor at eye level right above the workstation by using, for example, Velcro.

The black ground conductor of the monitor must be connected to the protective conductor of a second power socket by using, for example, a BJZ grounding box.

Finally, the wrist strap is attached to the monitor.

## Function

Place the switch in direction of the word "Aktiv". If the wrist strap is applied correctly, the "Safe" - LED will be illuminated.

If the red "Fault" - LED is flashing and a warning signal can be heard, this may have the following reasons:

- the wrist strap has been removed
- there is no connection between the ground and the monitor
- the wrist strap is damaged
- the coil cord is damaged

Identify the reason of the alert and fix the problem.

If the person connected to the monitor wants to leave the workstation, the switch must be placed in direction of the word "Stand by". In this case the warning signal is not actuated, but the flashing "Fault" - LED reminds the person to put on the wrist strap again.

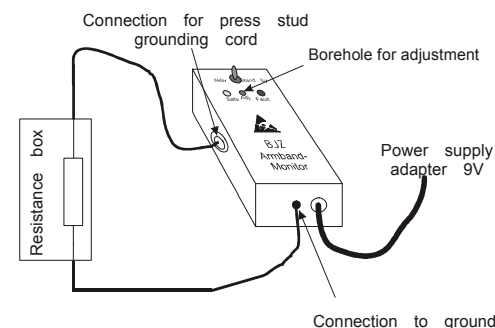
## Approach in case of failure

Check the wiring and wrist strap for functional capability. If necessary calibrate the monitor.

## Calibration

1. **Necessary tools:**  
- defined resistance (e.g. resistance box), junction cord

2. **Setup**  
The setup of the components must be arranged like in the following drawing:



## Adjustment

When using grounding cords with  $1 \times 10^6 \Omega$  protective resistance, the resistance box should be regulated to  $3 \times 10^6 \Omega$ .

When using grounding cords with other protective resistance, the resistance box should be regulated to  $+ 2 \times 10^6 \Omega$ .

Connect the monitor to the power supply and place the switch in direction of "Aktiv". By means of a screw driver the potentiometer can be reached through the borehole saying "Adj." Adjust the potentiometer until the LED switches from red to green, when using the appropriate resistance. If necessary, the borehole can be sealed after adjustment.