

9. Service / Repair

9.1 Recalibration

During the life-time of a transmitter, the value of offset and span may shift. As a consequence, a deviating signal value in reference to the nominal pressure range starting point or end point may be transmitted. If one of these two phenomena occurs after prolonged use, a recalibration is recommended to ensure furthermore high accuracy.

9.2 Return

Before every return of your device, whether for recalibration, decalcification, modifications or repair, it has to be cleaned carefully and packed shatter-proofed. You have to enclose a notice of return with detailed defect description when sending the device. If your device came in contact with harmful substances, a declaration of decontamination is additionally required. Appropriate forms can be downloaded from our homepage www.bdsensors.com. Should you dispatch a device without a declaration of decontamination and if there are any doubts in our service department regarding the used medium, repair will not be started until an acceptable declaration is sent.

⚠ If the device came in contact with hazardous substances, certain precautions have to be complied with for purification!

10. Disposal

The device has to be disposed of according to the European Directives 2002/96/EC and 2003/108/EC (on waste electrical and electronic equipment). It is prohibited to place electrical and electronic equipment in domestic refuse!



⚠ WARNING! Depending on the used medium, deposit on the device may cause danger for the user and the environment. Comply with adequate precautions for purification and dispose of it properly.

11. Warranty conditions

The warranty conditions are subject to the legal warranty period of 24 months from the date of delivery. In case of improper use, modifications of or damages to the device, we do not accept warranty claims. Damaged diaphragms will also not be accepted. Furthermore, defects due to normal wear are not subject to warranty services.

12. Explanation for the certificate

To item [12] of the EC type-examination "The marking of the equipment mentioned in [4] must include one of the following details:"

Equipment group	II				
Explosion protection	II				
Equipment category					
Zone 0 – Gas, vapor, mist	1G				
Zone 1 – Gas, vapor, mist	2G				
Zone 20 - Dust	1D				
Zone 21 - Dust	2D				
Designation according to EN and ignition protection type					
Intrinsically safe design	Ex ia				
Explosion group ¹					
II B		II B			
II C		II C			
Ingress protection					
IP 6X			IP 6X		
Temperature class					
max. environmental temperature 85 °C (1G, 2G)					T4
max. environmental temperature 135 °C (1G, 2G)					T6
max. surface temperature 85 °C (1D, 2D)					T 85°C

¹ Exact specifications regarding limiting gap width and minimum ignition current ratio can be taken from the corresponding standard or the VDE publication.

13. Declaration of conformity / CE

The delivered device fulfils all legal requirements. The applied directives, harmonised standards and documents are listed in the EC declaration of conformity, which is available online at: <http://www.bdsensors.com>. Additionally, the operational safety is confirmed by the CE sign on the manufacturing label.

14. Error handling

Malfunction	Possible cause	Error detection / corrective
no output signal	wrong connected	inspect the connection
	line break	inspect all line connections necessary to supply the device (including the connector plugs)
analog output signal too low	defective ampere meter (signal input)	inspect the ampere meter (fine-wire fuse) or the analog input of the PLC
	load resistance too high	verify the value of the load resistance
shift of output signal	supply voltage too low	verify the output voltage of the power supply
	defective energy supply	inspect the power supply and the applied supply voltage at the device
wrong or no output signal	diaphragm is contaminated or damaged	please send the device to BD SENSORS for repair
wrong or no output signal	electrical connection is damaged	check the connections
	reverse polarity of the pressure ranges	check if the higher pressure is connected with the input "p+"

If you detect an error, please try to eliminate it by using this table or send the device to our service address for repair.

⚠ DANGER! Working on supplied (active) parts, except for intrinsically safe circuits, is principally prohibited during an explosion hazard. Additionally, the operator is obligated to observe the information concerning operation and maintenance work on the warning signs possibly affixed to the device.

! Improper action and opening can damage the device. Therefore repairs on the device may only be executed by the manufacturer!