

ATEX Instruction Manual

The ATEX operating instructions are based on the operating instructions for the GCH models (9400.9000.1). This supplement is a constituent of the operating instructions. Only chapters that have been added to or corrected are included.

0 General information

The general information generally also apply to ATEX models.

0.2.1 Danger signs labelling

- ATEX sticker, dust-proof version..... figure 0-5
- ATEX sticker, gas-proof version..... figure 0-6

0.5 Technical status

0.5.1 Technical datas

An ATEX version of any standard electric chain hoist model can be manufactured.

0.6 Operational parameters

The ATEX version of the electric chain hoists must only be installed and used in the zone that is specified on the chain hoist sticker and documented in the conformity declaration. No modifications must be made to the original device without consulting the manufacturer.

This standard differentiates between two different usage areas:



II 3 D IP 65 T 130 °C

Devices for areas containing flammable dust (zone 22). These correspond to category II 3 D and have protection class IP65. The maximum surface temperature is T = 130°C.



II 3 D IP 65 T 130 °C
II 3 G EEx II nZ T3

Devices for areas containing flammable dust (zone 22). These correspond to category II 3 D and have protection class IP65. The maximum surface temperature is T = 130°C. For potentially explosive gas areas in zone 2. These correspond to category II 3 G and have ignition protection class EEx nZ T3.

1 Description

1.2 General functional description

1.2.2 Motor and brake

The stator must always be equipped with a temperature monitoring device.

1.2.5 Electrical controller

The electrical controller in potentially explosive gas areas only operates if there is overpressure in the housing. The overpressure is controlled by a pressure switch.

2 Start-up

The relevant explosion protection regulations must be observed during installation, maintenance and repair, particularly EN 600079-14 and EN 50281-1-2. The electrical installation must also be carried out by an electrical expert or under the supervision of an electrical expert in accordance with the relevant national regulations. Before installation, the device marking information must be compared with the designated operating conditions to ensure that the device operates as intended.

2.1 Transport and assembly

It must be checked whether the protection class of the chain hoist corresponds to the ATEX zone in which it is used.

2.2.1 Electrical connection



ATTENTION !

When the electrical connection is being made, it must be ensured that no explosive dust or gas is in the room.

The modified wiring diagram can be found in the cover of the electric chain hoist. All ATEX chain hoists are equipped with a temperature monitoring device. Only the provided threaded cable connections must be used.

2.2.5 Pneumatic connection

A compressed air supply is needed for electric chain hoists in potentially explosive gas areas. The mains connection pressure is 4-8 bar.

The inlet pressure is reduced to approx. 0.5 bar by a pressure reduction valve and led into the housing. The electrical controller only operates if there is at least 0.2 bar of overpressure in the housing.

Leaks in the housing can lead to a loss of air that does not affect operation.

3 Service and maintenance



ATTENTION !

It must be ensured that there is no explosive dust or gas in the room when service and maintenance work is being carried out on the electrical part of the device.

Figure 0-5

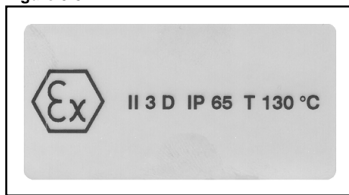


Figure 0-6

