

# Control Cubicle for Smoke Detection and Warning Function with Damper Exercise Installation Instructions for the ELQZ-2-528-1-2, GOLD

## 1. General

The control cubicle for smoke protection consists of a control unit for smoke and a logic unit for damper exercise mounted inside a cubicle fitted with a transparent cover. The necessary terminal blocks for external connections are provided. The control cubicle has 8 rubber seals for cable entry.

## 2. Applications

The control cubicle is intended for use with type ELQZ-2-428-2 smoke detectors. In the event of an indicated fault, the unit is designed to actuate the dampers, switch off the air handling unit and initiate an alarm.

A preprogrammed logic unit stops the unit and exercises the dampers at regular intervals. If an exercise is unacceptable, an alarm is initiated. The damper actuators fitted must be designed for a 230 V supply.

## 3. Installation

The control cubicle is designed for mounting on a wall, an air handling unit or other surface by means of four screws.

## 4. Technical data

Supply voltage	230VAC, 50-60 Hz
Power consumption (control unit)	3 VA
Power consumption (logic unit)	6 VA
Enclosure Class	IP 65
Permissible ambient temperature	0-50 °C
Dimensions (W x H x D)	250 x 200 x 120 mm
Weight	1,6 kg

## 5. Testing the smoke control unit

A green LED will light up when the unit is energized and operating normally. In the event of short-circuit, failure or smoke detection, the alarm relay will close and a red LED will light up. If a detector is dirty, a yellow LED will light up and the service alarm relay will close.

The alarm can be reset by pressing the reset button on the control unit. When the control unit has been reset the alarm must also be reset from the hand-held micro terminal of the GOLD air handling unit.



## 6. How the logic unit for damper exercise operates

The exercise cycle is activated in response to control signals from the logic unit at pre-programmed times. The damper exercise is carried out on Mondays, Wednesdays, Fridays and Sundays at 19.00.

First the logic unit transmits a signal to the GOLD unit to stop. After that (a pre-programmed delay), the dampers are exercised.

The running time of the dampers can be set in the logic unit. If an exercise is unacceptable (i.e. the dampers have not become de-energized) an alarm is indicated on the logic unit and on the hand-held micro terminal of the GOLD unit. The GOLD unit will not restart.

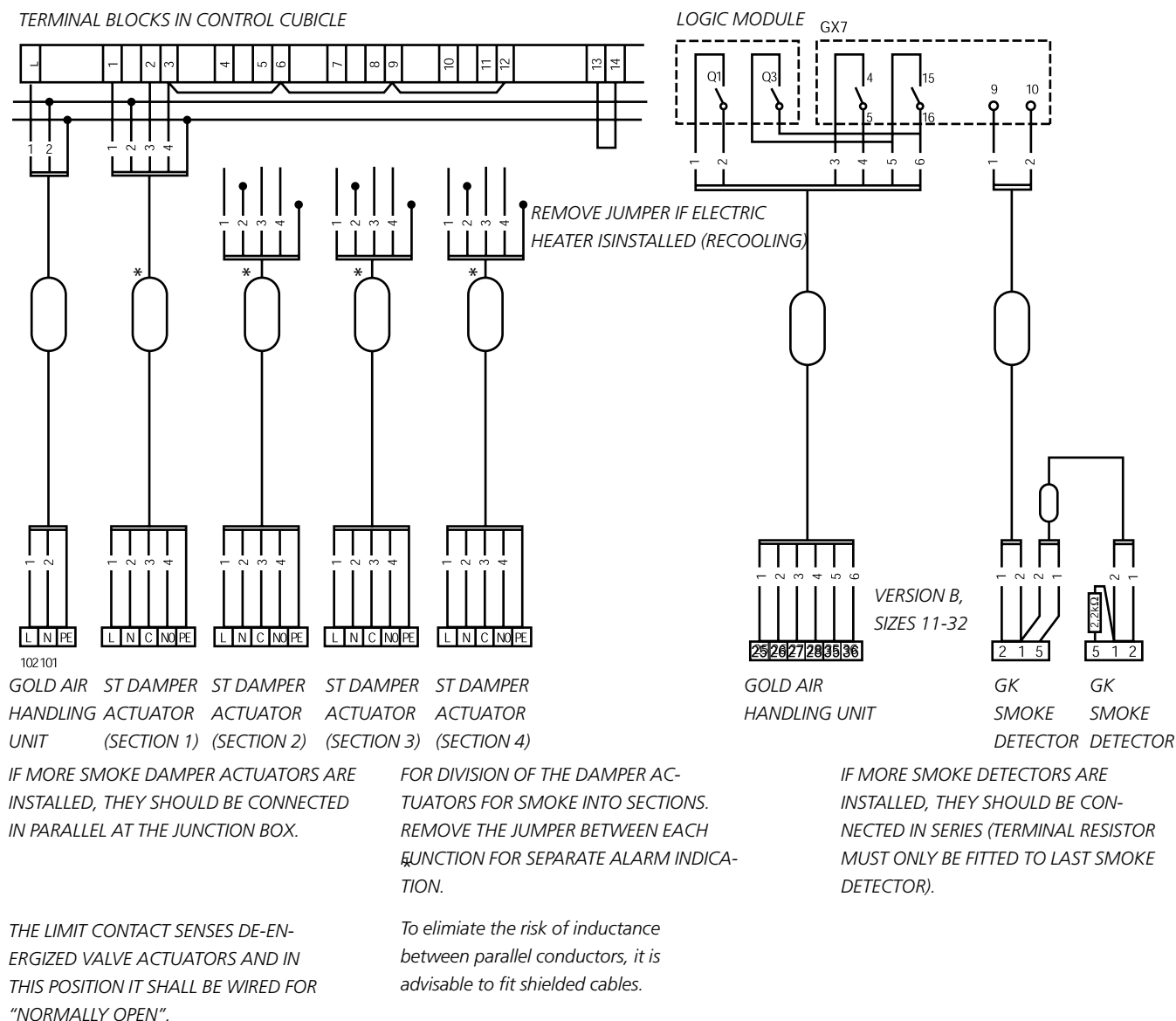
The alarm can be reset by pressing the ESC button on the logic unit. When the logic unit is reset, the alarm on the hand-held micro terminal of the GOLD unit must also be reset.

The exercise cycle is tested by pressing on button B on the logic unit.

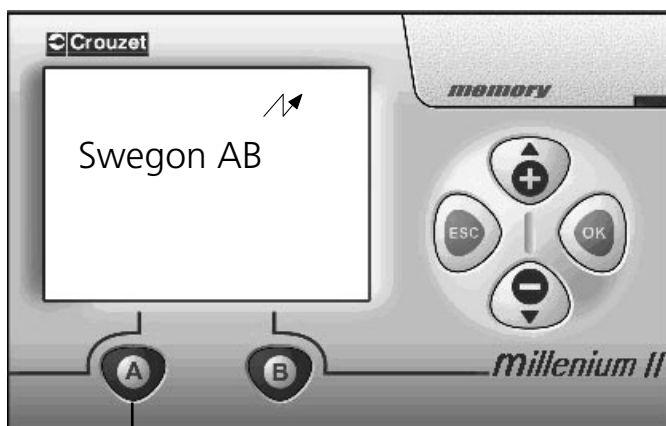
If an electric air heater is installed together with the GOLD unit, remove the jumper between terminal blocks 13 and 14. This will allow the electric air heater to cool down before the exercise cycle starts.

## 7. Electrical Connections

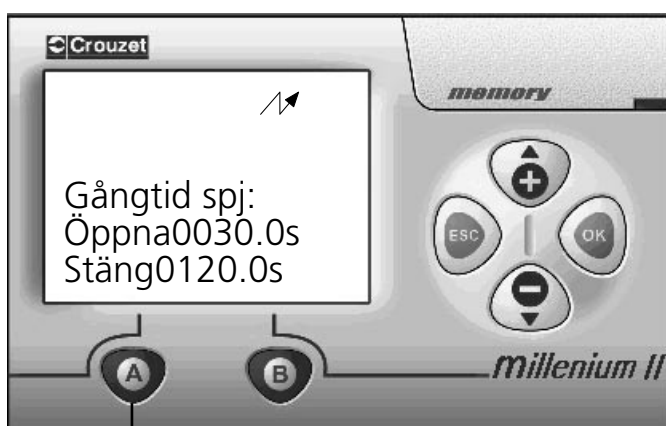
Electrical connections should be wired by a qualified electrician in accordance with local regulations.



## 8. Settings



The Logic unit is energized and operating normally. Press **A** to advance to next menu.



Menu for damper actuating time (Gångtid). Indicates how much time the damper needs to open (Öppna) and close (Stäng). If the damper has a longer actuating time, these parameters will have to be altered.

Press OK.

Increase or decrease the actuating time (Gångtid) by pressing + or -.

Then press OK to confirm your setting.

Press the - button to advance the next value.



Menu for total time (Totaltid) for exercise cycle (motionskörn).

In the event of an unacceptable exercise, the alarm is delayed during this time. The unit restarts immediately if the exercise is acceptable.



The menu shows the number of sections (Antal sekt:) into which the dampers can be divided.  
If the dampers are to be divided into more than one section, remove the jumpers from the terminals in the control cubicle.



Menu for current time and date.  
The time clock is equipped with automatic change-over from summer time to winter time and vice versa.  
The time clock has a running reserve of 10 years.



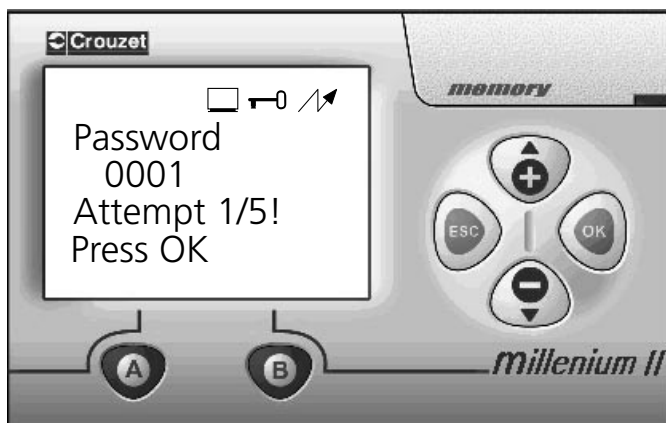
Menu for exercise.  
Press the **B** button to test the damper exercise (Motionskörn.) function.



Menu for alarms (Larm Sektion).

If the dampers are divided into sections, only the section that is alarmed is shown.

The alarm can be reset by pressing the ESC button.



Menus for installation.

There are parameters in this menu group that affect the basic functions of the logic unit.

Only how to alter times for damper exercise is described below.

Press and hold the OK and the ESC buttons at the same time.

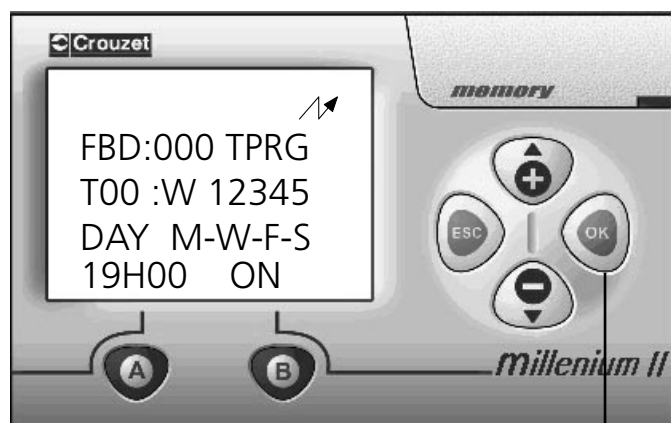
Password = 9999. Press – two times.

Press OK.



Press – to mark the "PARAMETERS".

Press OK.



T00. Indicates the time setting when the exercise shall be carried out. Note that if you change T00, then T01 will also have to be changed.

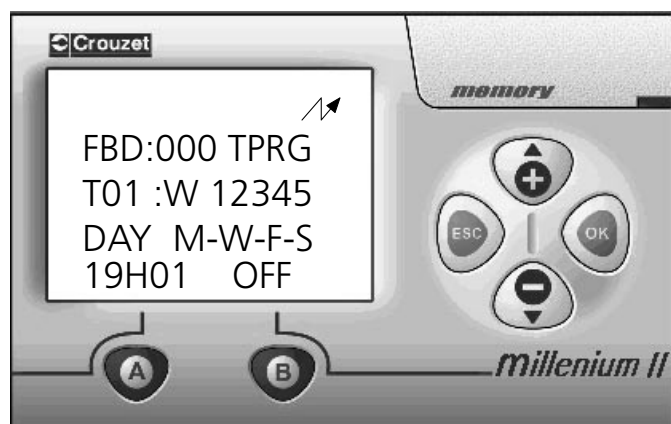
W = Which weeks of the month the function shall be active.

DAY = Days of the week when the damper is exercised.  
19H00 = Time (19:00) when the pulse for starting the exercise is transmitted.

Select desired parameters by pressing + and –.

To alter a setting, press OK. The value can be altered by pressing + and –.

Press OK to confirm your change.



T01. This parameter should be set 1 minute after you have set T00.

W = Which weeks of the month the function shall be active.

DAY = Days of the week when the damper is exercised.  
19H01 = Time (19:01) when pulse for starting the exercise ceases.

Select desired parameters by pressing + and –.

To alter a setting, press OK. The value can be altered by pressing + and –.

Press OK to confirm your change.