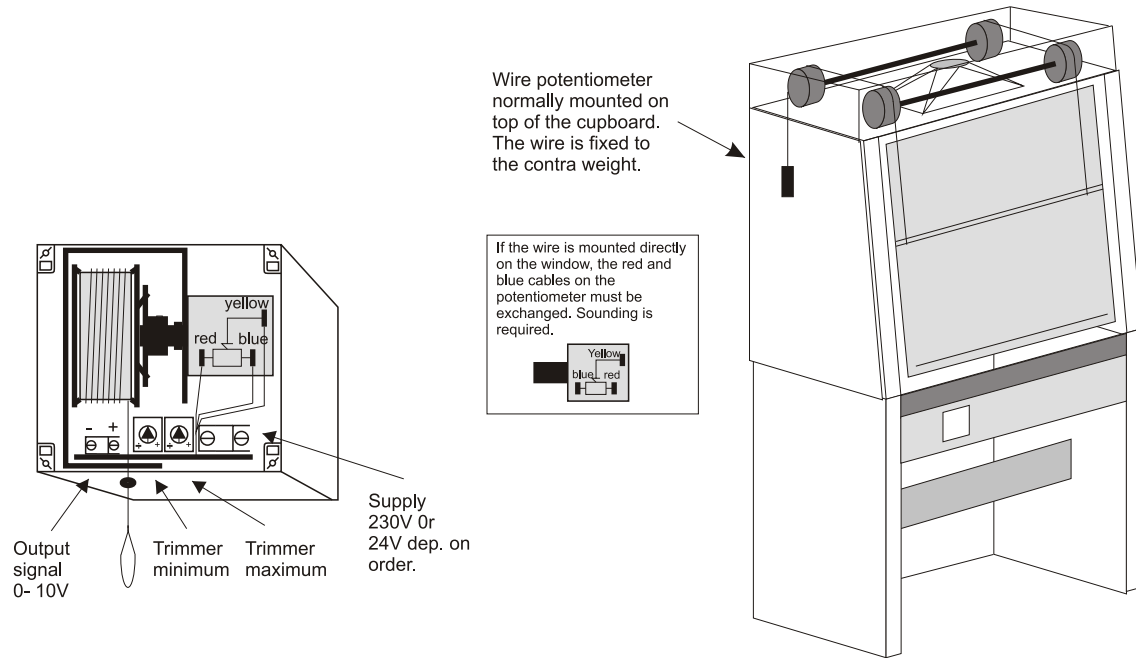


ES 363

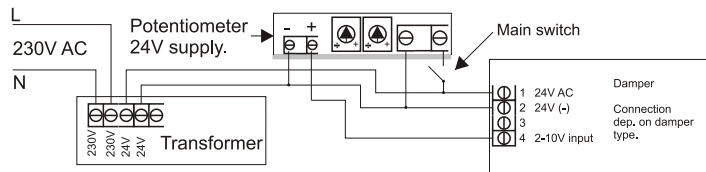
Wire potentiometer 0-10 V

Connection diagram:



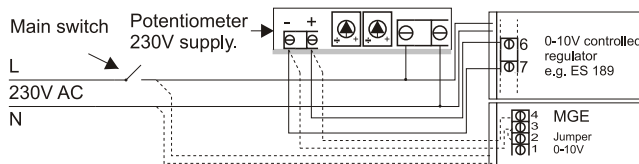
Connection examples:

Potentiometer connected to 24V AC 0-10V controlled damper



The ventilation pressure before the damper must be constant.
Maximum and minimum voltage is adjustable.

Potentiometer connected to MGE frequency converter or 0-10V controlled triac regulator



Technical data :

Supply:	24 or 230V AC (dep. on order)
Enclosure:	IP 22
Dimensions (h x w x d):	80 x 82 x 54 mm
Output voltage:	0-10V DC
Output current:	1 mA
Max. load:	> 10 Kohm
Op. temperature:	0 - 50 °C
Wire:	Acid proof, stainless steel
Wire length:	1,2 m
Wire tensile strength:	32 kg
Wire load capacity:	10 kg

Description:

Potentiometer intended for mounting on fume cupboards for registration of window position with integrated 0-10V signal output.
The potentiometer is equipped with a return spring to ensure that normal function of the fume cupboard is not adversely affected. The special construction of the spring housing allows the potentiometer to register a window movement of 1.2m.
The wire is acid proof and made of stainless steel ensuring a long lifespan in a conventional fume cupboard environment.
The integrated signal emitter provides many application options. The potentiometer can be connected as a control unit for e.g. damper, volume flow regulator, frequency converter, voltage regulator or as BMS monitoring of the window on existing systems.
The active range of 0-10 volt is adjustable on 2 integrated trimmers, min. and max.
The supply voltage and the control voltage output are galvanic isolated.
The ES 363 is an adjustment system. If the system are to be monitored for security reasons, this is a separate installation.

Adjustment:

Close the window and adjust the minimum trimmer until the output signal is 0,1V.
Open the window to maximum position and adjust the output signal until it is 10V.
Check the range and readjust if required.

Note:

The wire must not be pulled all the way out and let go as this may damage the unit. If the wire is pulled out more than 1,2m the potentiometer / the return spring may be damaged.
The wire should be pulled out in a straight line also when it has been mounted.
If the wire is damaged, the unit should be replaced as this may result in uneven hoisting.

Mounting:

To be mounted in the fume cupboard at the place where it is possible to connect the wire from the potentiometer to the hoisting system (or the window in which case two cables need to be repositioned). If required the wire can be fixed with cable strips. The box is fixed to the wall or the fume cupboard by means of 4 screws.
When the wire is pulled out of the potentiometer the angle from the pulling hole must not be more than 22,5 degrees. As standard the potentiometer is designed for mounting on top of the cupboard with the wire on the contra weight, i.e. the wire is rolled up, when the window is closed. If the potentiometer is mounted on the window, the blue and red cables from the potentiometer must be exchanged (sounding required).

Date: 18/11 - 2003
 Drawn by: PN - JEH
 Rev.: 2
 Manufactured by: LS Control A/S

