



## BE-SEG

### FOR EASYLAB FUME CUPBOARD CONTROLLERS

Control panels to be used with fume cupboard controllers, for displaying operating values, activating functions and signalling operating states

- Signalling of safety-related functions of fume cupboards according

to EN 14175

- Display of actual values, setpoint values, and status messages
- Two-character display for displaying system information and face velocity
- Wireless communication with Bluetooth module
- Push buttons for the operating mode default setting and for specific functions
- Project-specific range of functions with configurable push buttons
- Two control panels can be used simultaneously for each fume cupboard controller
- Integral service socket for configuration and diagnosis
- Casing suitable for flush mounting or surface mounting to the fume cupboard side frame

Optional equipment and accessories

- Indication of power supply failure for fume cupboard controllers with expansion module EM-TRF-USV

## Application



Application

- Control panels Type BE-SEG for displaying and operating the aerodynamic functions of fume cupboards
- Status display to EN 14175
- Display of actual values, setpoint values, and operating states
- Optical and acoustic alarms
- Operating mode default setting
- Operation of lighting or automatic sash device without additional installation or wiring
- Connection to fume cupboard controller EASYLAB TCU3

Special characteristics

- Optical and acoustic signalling of the safety-related functions of the fume cupboard according to EN 14175
- Large three-colour status display
- Push buttons and functions can be configured individually
- Easy to use – available function buttons are visible, unavailable function buttons are not visible
- Excellent operating reliability as a result of continuous self monitoring of the communication between controller and control panel
- Two control panels can be used for each fume cupboard controller, e.g. for fume cupboards with sash windows on two sides

## Description



Variants

- BE-SEG-01: Control panel for all fume cupboards
- BE-SEG-21: Control panel optimised for Type SCALA fume cupboards by WALDNER

Parts and characteristics

- 2-character display
- Three-colour status display (green, yellow, red) with text HIGH and LOW
- Sash monitoring warning display
- 8 function button fields, can be individually activated
- Alarm sounder
- Connection socket for EASYLAB controller
- Integral service socket for configuration and diagnosis of the controller
- Wireless communication with Bluetooth module BlueCon
- 5 m connecting cable
- Rectangular casing suitable for flush mounting or surface mounting

Useful additions

- EasyConnect: Configuration software for the commissioning and diagnosis of EASYLAB components

Construction features

- Oblong display suitable for flush mounting or surface mounting to the fume cupboard side frame
- Surface mounting by screw fixing the casing to the side frame

- Flush mounting by clip fixing the display to the side frame (without casing)

#### Materials and surfaces

- Casing in ABS plastic
- Casing: pearl light grey (RAL 9022)
- Front plastic: anthracite grey (RAL 7016)

## INFORMACIÓN TÉCNICA

The control panel type BE-SEG-01 is used to display and control the most critical aerodynamic and safety-related functions of a fume cupboard. Users obtain information regarding the condition of the fume cupboard and can control various operating modes. The individual display elements and controls are as follows:

- Three-colour status display
- Warning display
- 2-character display
- Alarm sounder
- 8 function button fields: 1 acoustic alarm acknowledgement, 3 operating mode buttons, 2 buttons for the automatic sash device, 1 button for the fume cupboard lighting, 1 button for manual control
- Service socket

The range of functions of the control panel can be adapted to project-specific requirements using the EasyConnect configuration software. The range of functions may vary for different fume cupboards.

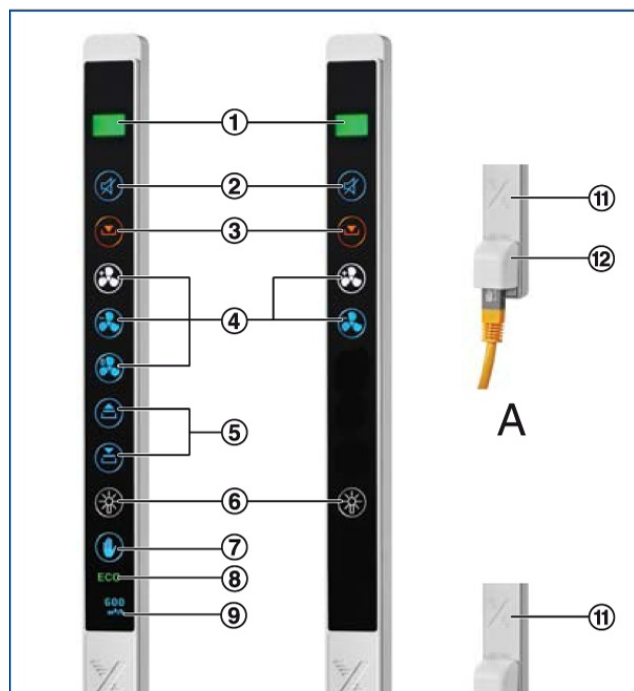
The function button fields are used for display and as buttons for operation. The available functions are highlighted (blue).

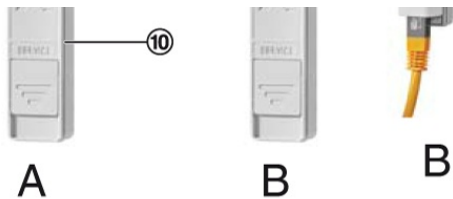
The required function can be selected by pressing the appropriate button.

- Selecting an operating mode
- Automatic sash device
- Fume cupboard lighting on/off

The two-digit display shows system messages or, if enabled, the actual face velocity.

### EASYPAN control panel BE-SEG-02/03, display and control elements





A BE-SEG-02

B BE-SEG-03

- ① Status display (green, yellow, red) with text HIGH and LOW
- ② Alarm acknowledgement
- ③ Sash monitoring warning display
- ④ Selection of operating mode
- ⑤ Automatic sash device
- ⑥ Fume cupboard lighting
- ⑦ Manual control
- ⑧ ECO display
- ⑨ OLED display showing actual volume flow rate, face velocity and status (BE-SEG-02 only)
- ⑩ Connection socket for EASYLAB controller (at rear)
- ⑪ Alarm sounder
- ⑫ Connection socket for service and commissioning

Supply voltage	24 V DC from the TCUS controller
Connecting cable	Approx. 5 m standard network patch cable, SF-UTP, extendable to 40 m
Operating temperature	0 – 50 °C
IEC protection class	III (protective extra-low voltage)
Protection level	IP 41 for surface mounting, IP 42 for flush mounting
Dimensions	23 x 306.4 x 6.4 (without wire clamping bracket)
EC conformity	EMC according to 2004/108/EC
Weight	0.130 kg

Fume cupboard control panels with adjustable status display for the EASYLAB system, used to display and control the most critical aerodynamic and safety-related functions of a fume cupboard. The control panel includes a 2-character display, function buttons, a three-colour status display, an alarm sounder, and a service socket.

Casing suitable for flush mounting or surface mounting to the fume cupboard side frame

Scope of functions

- Configurable, optical and acoustic signalling of the safety-related functions
- Large three-colour status display; green, yellow or red with text LOW or HIGH (red: either blinking or permanent)
- Continuous self monitoring of the communication between controller and control panel
- Integral service socket for configuration and diagnosis
- Wireless communication with Bluetooth module BlueCon
- Two control panels can be connected simultaneously to a controller

Configurable functions

- Available (configured) function buttons are visible
- Unavailable function buttons are not visible

Function buttons that can be activated

- Warning display that 'maximum operational sash opening' has been exceeded
- Increased volume flow
- Reduced volume flow
- Shut-off mode
- Automatic sash device
- Fume cupboard lighting
- Manual mode (override operating mode default setting)

Special characteristics

- Optical and acoustic signalling of the safety-related functions of the fume cupboard according to EN 14175
- Large three-colour status display
- Push buttons and functions can be configured individually
- Easy to use – available function buttons are visible, unavailable function buttons are not visible
- Excellent operating reliability as a result of continuous self monitoring of the communication between controller and control panel
- Two control panels can be used for each fume cupboard controller, e.g. for fume cupboards with sash windows on two sides

Materials and surfaces

- Casing in ABS plastic
- Casing: pearl light grey (RAL 9022)
- Front plastic: anthracite grey (RAL 7016)

BE-SEG-02/03



**1 Type**  
**BE-SEG** Control panel for EASYLAB controller TCU3 or fume cupboard monitoring system FMS

**2 Variant**  
**02** For all EASYLAB controllers and for monitoring system FMS with OLED display  
**03** For fume cupboard monitoring system FMS