Downflow bench monitor - FLOCHECK F.

INTRODUCTION

FLOCHECK F is used as a fixed digital room panel for downflow benches or other installations with Lindinvent's 2-mode airflow controller FLLb.

FUNCTIONS

Installed as control and safety equipment for a downflow bench.

- Button for selecting the normal working airflow or the stand-by rate of airflow. Reference values and alarm limits are set according to safety regulations.
- Active screen on which users can see the operating mode with status in plain text together with the current meassured rate of airflow. The current damper angle in the connected damper can also be displayed.
- Used for logging in to the connected controller.
- Gives an acoustic alarm with a buzzer and/or an optical alarm through LEDs.
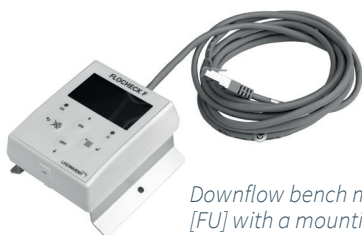- Easily connected via FTP cable (RJ45).

Operating mode is set via the keypad. Authorised users can navigate in a code protected menu to set or alter parameter values.

ALARMS

A green LED indicates that the airflow is maintained within the expected range. An alarm is activated when the reduced standby flow "MIN" is selected or when the measured flow does not correspond to expected values. The alarm can be indicated both optically and acoustically with a red LED and a buzzer.

DESIGN FU OR FB

To support mounting FLOCHECK F is available with the network cable either entering from the top (FU) or the back side (FB) of the encapsulation.

Downflow bench monitor Flocheck F [FU] with a mounting bracket.

TEKNICAL SPECIFICATIONS

General

Dimension
103 x 82 x 30 mm (LxWxH)

Net weight
0.270 kg (Including cable)

Material
ABS encapsulation

Miscellaneous
Supplied with network cable (3 m) with RJ45 jack for connection to fume cupboard controller FCLb. Equipped with a snap off bottom lid.

Display
LCD technology: FSTN
Resolution: 128x64 pixels
Backlit with white LEDs
Screen size: 58x29.5 mm

Colour
RAL 9003

IP class
Encapsulation complies with IP54

Electrical system

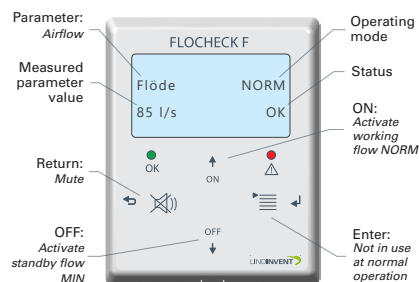**Supply voltage**
From controller

Output
2.5 VA

CE marking
Complies with EMC and the Low Voltage Directive

LINDINVENT

FLOCHECK F – Instructions
Down-flow Bench safety guard

About the equipment
FLOCHECK F is used to set the bench in normal or standby mode. The panel should also alert personnel to an incorrect airflow. Connected controller maintains the airflow that ensures that environmentally harmful substances are evacuated with exhaust air without leakage to the room. Setpoints and alarm limits are set according to current regulations. Changes to settings may only be made by a person skilled in the art. In case of suspicion of malfunction, contact a safety representative or a supervisor. Deviations from these specified values of settings may occur.

Parameter: *Airflow*
Measured parameter value

FLOCHECK F
Flöde   NORM
85 l/s   OK

OK   ON   ⚠

Operating mode
Status
ON: *Activate working flow NORM*

Return: *Mute*
OFF: *Activate standby flow MIN*

Enter: *Not in use at normal operation*

Function
FLOCHECK F shows the current status and mode of operation. The unit alerts by text messages, summer tone and by the activation of LEDs. The rate of airflow is set manually by pressing <ON> for the normal workflow or <OFF> for the stand-by rate of airflow.

Operating mode
Normal flow (Working mode)
Green LED and the text "OK" in the display's status bar indicates that the airflow is within the specified limits. The bench is activated to the required workflow. Operating mode "NORM" appears in the status bar.

Flashing red LED *with* summer tone warns that the airflow is lower than the intended workflow. The summer can temporarily be switched off by pressing <Mute>. As a reminder, the buzzer returns after 20 minutes.

Flashing red LED *without* summer tone indicates a higher workflow than intended.

When not in use: Switch to *standby mode* by pressing <OFF>. The down-flow bench maintains it´s standby rate of airflow while reducing energy usage and wear.

Minimum flow (Standby mode)
Solid red LED alerts the operator that the down-flow bench is not in its working mode. The airflow is reduced to and maintained at the lower standby level. The operating mode "MIN" is displayed in the status bar. Alarms when the stand-by airflow is higher or lower than intended is indicated only by flashing red LED.
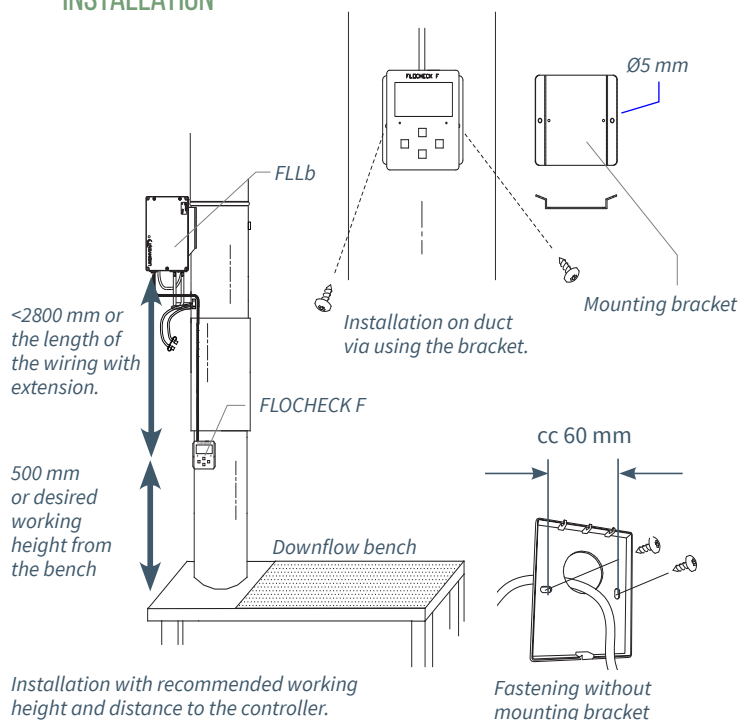
Settings
Settings can be changed by an authorised technician using the code protected menu system in FLOCHECK F.

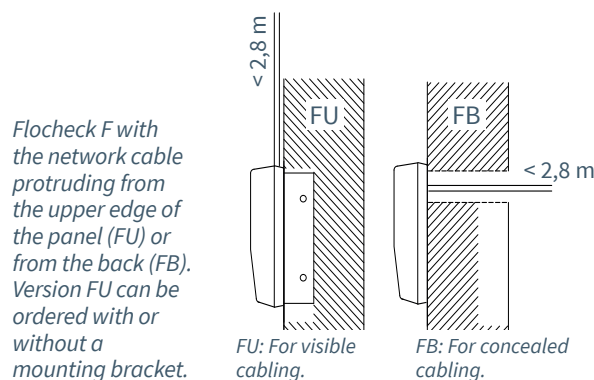FLOCHECK-F_FcF10_FLLb_FLL_BI142
Artno: 00MAN-DB

Copy of the laminated user guide/manual for FLOCHECK F.

INSTALLATION

Ø5 mm

FLLb

Installation on duct via using the bracket.

Mounting bracket

<2800 mm or the length of the wiring with extension.

FLOCHECK F

500 mm or desired working height from the bench

Downflow bench

cc 60 mm

Installation with recommended working height and distance to the controller.

Fastening without mounting bracket

ORDERING INFORMATION

When ordering, state which variant of FLOCHECK F is intended. FLOCHECK F FU, for visible cabling, can be ordered with or without mounting bracket. FLOCHECK F FB, for concealed cabling, lacks mounting bracket. See illustration below for a description of the two variants.

Flocheck F with the network cable protruding from the upper edge of the panel (FU) or from the back (FB). Version FU can be ordered with or without a mounting bracket.

< 2,8 m

FU   FB

< 2,8 m

FU: For visible cabling.

FB: For concealed cabling.

ADDITIONAL PRODUCT DOCUMENTATION

Available at the product homepage on www.lindinvent.com

Document	Comment
Installation instruction	Some instructions are included with the product description.
Start-up instrction	Available in swedish. Driftsättningsanvisning FLLb.
Maintenance instruction	Not available. Regarded as maintenance-free.
Externa connection diagram	Not relevant. FLOCHECK F is connected to the controller via FTP cable with pre-mounted jack.
Building material declaration	Assesed by Byggvarubedömningen.
User Guide	Available on the homepage and as a 2-page laminated Manual.
Modbuslist	Not relevant.
AMA-text	Available for FLLb. Not translated.