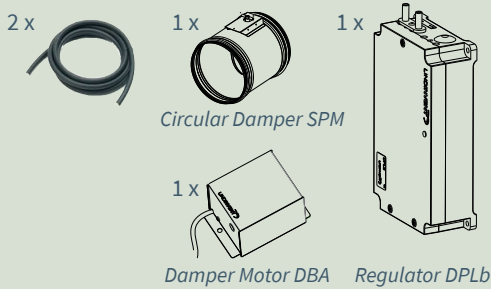


EQUIPMENT



Hose 8x5 (1 m):

- Used for positioning the reference point and for pressure measurement.
- Included with the DPLb upon delivery.

ACCESSORIES DPB

DPB is a protective box that can be used during the installation of the DPLb regulator to conceal and protect the ends of the pressure hoses, which would otherwise remain exposed in the areas where pressure is measured. The box is mounted on the wall or ceiling where the pressure hose opens into the room.

Dimensions DPB
80x40x20 mm (LxWxH).

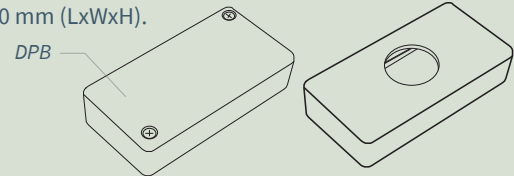


Illustration T1: DPB - Protective box, front and back view.

INSTALLATION OF DPLb

DPLb is typically mounted on a wall with hoses routed from the internal pressure sensor to the areas where differential pressure regulation is required.

1. Screw the regulator to the wall near the point where the pressure difference is to be measured. Ideally, place the DPLb above a suspended ceiling so that the regulator cover with LED-pipe (A) is easily readable.
2. Hose (B) is routed from the pressurized room to "Measure" on the regulator. Hose (C) is routed from the reference room to "Reference" on the DPLb. Holes in the wall must be sealed.

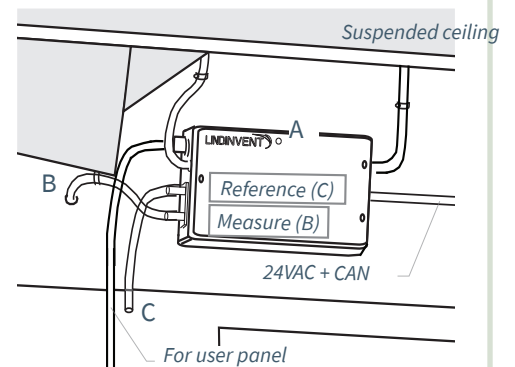
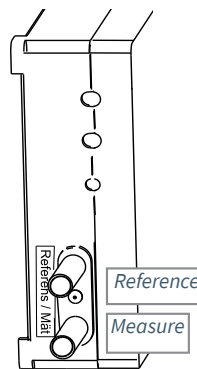


Illustration M1: Placement of DPLb with connections.

1. WALL MOUNTING

DPLb is generally screwed directly to the wall. For a more practical installation that does not risk damaging the circuit board or any wiring, the enclosure is equipped with external mounting holes.

2. MOUNTING VIA MOUNTING PLATE

Alternatively, the mounting plate MPLb can be used to attach the device to the wall or ladder. The plate, with pre-drilled holes for mounting, is inserted between tabs on the back of the regulator.

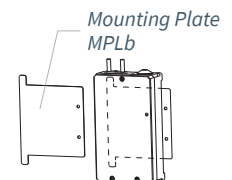
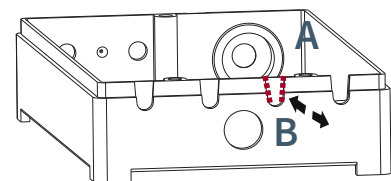


Illustration M2: Mounting plate MPLb.

3. CONNECTION

Connections are made with the help of the external wiring diagram for the DPLb: See the inside of the regulator's cover.

- The regulator is connected to 24 VAC and the network (CAN) via Lindinvent's standard cable with 2 conductors for power supply and 2 conductors for communication, or alternatively via its own 24/230 VAC transformer
- Make openings for each cable: Use wire cutters to open suitable slots for the cables as shown in the illustration below.
- When connecting: Use bi-lead hose for screening.
- After connections are made, reinstall the cover, ensuring that the cables are clamped securely for a safe installation.



A: Cut x 2
B: Bend back and forth/break off
(Cut/clean outlet with pliers)

Illustration 11:
Outlets are made as per A and B for cabling.

INSTALLATION OF FLOCHECK P

1. Determine the appropriate height from the floor where the panel is to be mounted.
Note: The distance from Flocheck P to the connected regulator cannot (without splicing) exceed the length of the cable supplied with the panel (normally 2.8 meters).
2. Flocheck P is usually mounted on the wall next to a vestibule/door with either surface-cabling or concealed cabling/apparatus box. See Illustration M2 for FU and FB. The attachment to the wall is made via screw holes in the bottom casing. See Illustration M3.
3. Connect the pre-connected cable from Flocheck P version B02 to DPLb. See the external wiring diagram for DPLb for the intended 4-pin connector.

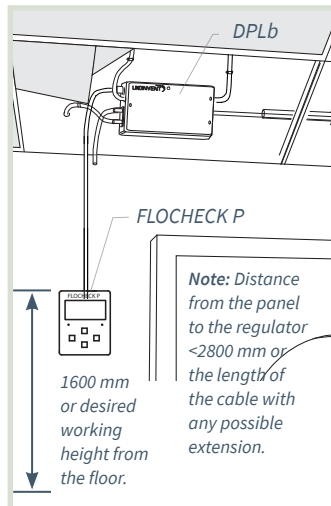


Illustration M1: Flocheck P mounted as a fixed user panel for the DPLb.

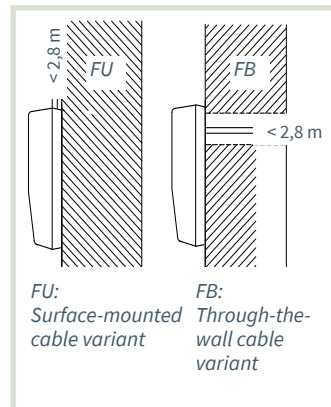


Illustration M2: Flocheck P can be ordered with the cable connected at the top edge of the panel (FU) or as a variant with the cable connection routed through the back (FB).

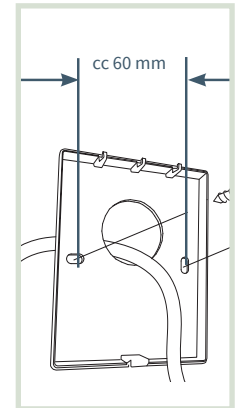


Illustration M3: Direct wall/apparatus box mounting.

COMMISSIONING

Preparation before commissioning

- The regulator is powered on, and Flocheck P is connected to the regulator.
- A description of the display of actual values and the complete menu with settings can be found in the separate commissioning guide for DPL/DPLb.
- The pressure sensor in the DPLb is calibrated at delivery.

Note: The DPLb can also be commissioned via LINDINSIDE.

Via Flocheck P

Log in via the connected Flocheck P using code 0819. Press <Confirm> to activate login. After logging in, the main menu is accessed via <Confirm>. The desired menu option in the main menu is selected via <Up Arrow> or <Down Arrow>, followed by <Confirm>. Navigate back in the menu structure using <Back Arrow>.

Note: The main menu in DPL begins with the menu option Function, see below. Under the main menu option Quick Config, essential settings from the entire menu structure have been gathered to facilitate commissioning. If no further settings are made, the DPLb will otherwise operate with the original factory settings.

Step 1: Function Selection

The main menu begins with the option Function. By assigning a function, the settings that need to be made in subsequent menu options Quick Config are determined.

- Differential pressure regulation (Master controlling based on its own measurements).
- Differential pressure regulation external measurement (Control based on differential pressure from the zone).
- Differential pressure measurement (Measures and sends differential pressure to the zone).
- Slave control (Damper angle controlled via a master DPLb)

Step 2: Quick Configuration

Settings under the main menu option Quick Configuration:

Set Node ID [All function options]

Set a unique Node ID (1-239, which cannot be 0) following Lindinvent's recommended Node ID allocation.

Differential Pressure Zone [All function options]

The regulator can coordinate with multiple differential pressure regulators over CAN. If set to 0, the regulator is not part of a differential pressure zone.

Damper Positioning [All function options]

Set to specify whether the sensor is used to control a damper in an exhaust or supply air duct.

Differential Pressure Setpoint [Only Differential Pressure Regulation/External Differential Pressure]

The regulator comes with a setpoint of 10 Pa (differential pressure).

Damper Calibration [All function options]

Perform damper calibration:

- Check that the damper has fully opened and <Confirm>.
- Check that the damper has fully closed and <Confirm>.

Verify Functionality

Commissioning ends with a functional check:

- Check the calibration by comparing the measured differential pressure via an instrument with the pressure indicated on Flocheck P.
- See the user information for Flocheck P for guidance on handling and alarm functions.