

RXP 212: Pneumatic operating unit

Used in conjunction with the RLP 100 F123 VAV controller and the RXP 210 alarm unit for monitoring the air volume in relation to the sash opening of a fume-cupboard. Functions: operating mode V_{max}/control mode (F001, F002); V_{min}/control mode/V_{max}/control mode (F003, F004); alarm reset; indication of control offset. All the operating units comply with EN 13463-1 and EN 1127-1 (Ex II 2 G T6) and can be employed in Zone 1 areas where there is a risk of explosion.

Housing is made of glass-fibre-reinforced thermoplastic; front plate of aluminium with manual switch, 'Mute' button and manometer. Suitable for fitting into panels; for wall mounting, see accessories. Compressed-air connections: push-on connectors for soft plastic tubing of 4 mm internal dia.

Туре	Fitting	Position of manual switch $^{\c V}_{$	Positions	Weight kg
RXP 212 F001	vertically	emergency mode; damper fully open	2	0.2
RXP 212 F002	horizontally	emergency mode; damper fully open	2	0.2
RXP 212 F003	vertically	100% air volume, controlled	4	0.2
RXP 212 F004	horizontally	100% air volume, controlled	4	0.2

Manual switch and <i>Mute</i> b Nominal flow Q _N Max. leakage rate Max. pressure/differential pr	(1.0 bar \to 0) (2.5 bar \to 0)	3.0 m ³ _n /h 1.2 l _n /h 2.5 bar	Pressure gauge: Error Max. operating pressure	Class 1.6 1.4 bar
Permissible ambient temp. Wiring diagram	F001/F002 F003/F004	055 °C A04869 A08539	Dimension drawing Fitting instructions	M03226 MV 505314





Accessories

0297780 001* Housing, including two screws, for wall mounting; not tested for explosion-free zones.

Dimension drawing or wiring diagram are available under the same number

For regulations on the quality of the air supply, especially at low ambient temperatures, see Section 60.

Together with the RLP 100 F123 controller and the RXP 210 alarm unit, the operating unit monitors the air volume in the fume cupboard. The amount that the fume cupboard's sash is open is fed as a setpoint to the relevant VAV controller (RLP 100 F123) and compared to the actual value of the air volume (F001, F002). On the F003/F004 models, the amount that the fume cupboard's sash is open is fed as a setpoint (via the operating unit's manual switch) to the VAV controller and compared to the actual value of the air volume.

Any deviation is indicated visually (in accordance with DIN 12924) on the RXP 212. In the event of a malfunction, an acoustic signal is emitted by the RXP 210 alarm unit. It can be stopped by pressing the 'Mute' button on the operating unit for about two seconds (closes connector 6 on the alarm unit).

For indicating the offset in air volume ($\Delta \mathring{V}$). **Pressure** Green sector: actual value = setpoint. gauge

Red sector: the actual value is smaller or larger than the setpoint.

RXP 212 F001, F002: with \mathring{V}_{max} position (emergency mode; damper fully open) and Manual switch

position (control mode).

RXP 212 F003, F004: with \dot{V}_{min} position (minimum air volume, controlled), \bigodot position (control mode), \dot{V}_{max} position (100% air volume, controlled), and $\dot{\bigcirc}$ position (control mode).

to suppress the alarm. Mute button

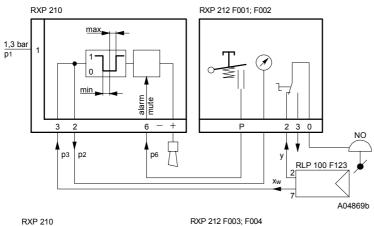
Technical information

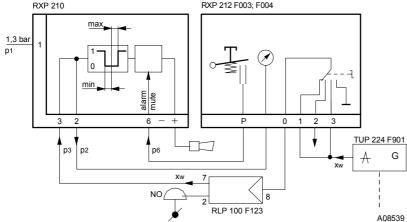
Technical Manual VAV 7 000 621 001

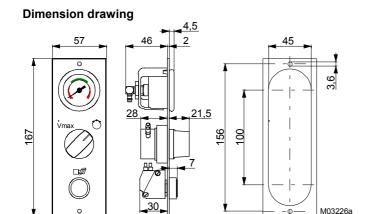
Additional information on accessory

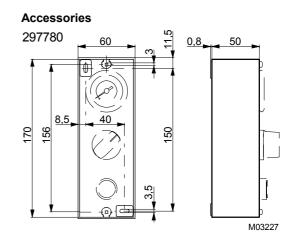
0297780 001 Housing of black glass-fibre-reinforced thermoplastic. Due to the suitable choice of materials, the surface resistance is not higher than $10^9 \Omega$. When used in compliance with the guidelines, and when carrying out servicing and cleaning, no electrostatic charges occur. The housing complies with the EN 50014 standard.

Connection diagram



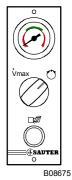


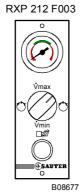




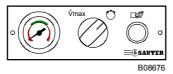
Variants



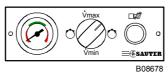




RXP 212 F002

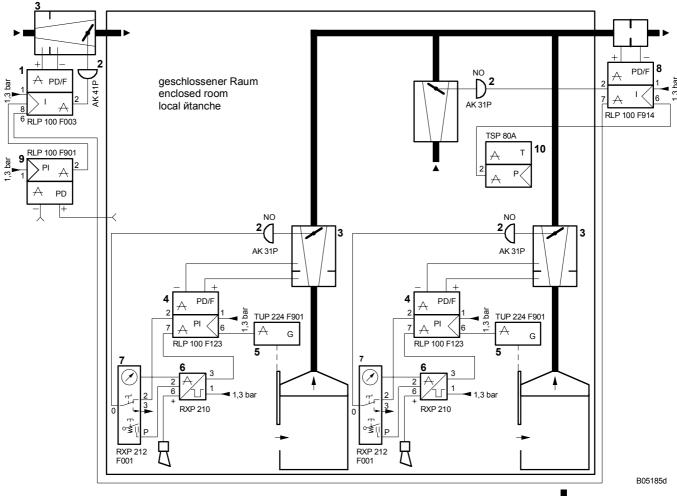


RXP 212 F004



Example of use

Volume of return air controlled in proportion to the opening of the fume cupboard's sliding door; with sash sensor, alarm unit and operating unit; taking the room temperature into account.



Variant: RLP 100 F123 with: alarm unit RXP 210 and operating unit RXP 212 F003 (manual switch Aut- V min-Aut- V max)

- Volume-flow controller
- Damper drive, NO
- 1 2 3 4 5 6 7 8 9 Reducing box
- VAV return-air controller for fume cupboards
- Sash sensor
- Alarm unit
- Operating unit
- Room RA controller for aggressive gases
- Pressure controller
- 10 Room-temperature controller
- NO Normally open (drucklos offen)

