

Gas self-balancing exhaust terminal

11017107

TDA fixed

The TDA terminal generates even more savings and better IAQ in commercial buildings.



PRODUCT BENEFITS

- comfort, IAQ and energy savings due to automatic operation based on presence detection,
- easy to install,
- possible to control lighting.

REGULATIONS AND COMPLIANCES

Technical Opinion no.: 14.5/16-2185

Principles of operation

The TDA terminal features a built-in optical sensor. It can therefore switch automatically from minimum extract airflow to boost airflow if occupancy is detected, for better IAQ, increased comfort, and higher energy savings.

Product description

The TDA terminal is a small extract terminal with built-in presence sensor. The terminal operates at a minimum extract airflow or peak airflow depending on the signal received from the sensor. The terminal is white and blends seamlessly into the wall or ceiling.

Fields of application

New, Refurbishment, Non-residential buildings

Installation

- wall or ceiling attachment,
- 1 TDA per ducting system branch,
- Specific version with reporting of occupancy data via a relay, for example to activate room lighting at the same time as the ventilation,
- depending on versions:
 - mains power supply 12 V AC DC (accepts up to 5 TDA terminals),
 - 9V battery type 6LR61 supplied.

Reference arguments

- The TDA terminal controls the airflow according to room occupancy to save energy in case of no presence (thermal losses due to heating or cooling) and to maintain good indoor air quality if occupants are present.
- Possible inclusion in thermal calculations thanks to Technical Approval no. 14.5/16-2185.
- Optical occupancy detection using Fresnel lens.
- Minimum airflow when unoccupied: 0 m³/h.
- Adjustable airflow if presence detected: 25, 50, 75 or 90 m³/h.
- Pressure range between 100 and 160 Pa.
- 12 V AC DC.

Main characteristics

- automatic regulation of airflow according to presence in the room,
- slaved to presence: air renewed when room is occupied,
- unslaved version for aesthetic homogeneity,
- standard airflow: 7.5 m³/h at 100 Pa,
- peak airflow adjustable by cursor: 25, 50, 75 or 90 m³/h at 100 Pa,
- 6LR61 battery supplied.

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Supplementary characteristics

The TDA remains at peak airflow for 20 min after the last detection of presence.

Accessories

Description	Variants
Shoulder sleeve Ø 125 mm	11012220
Sheet sleeve 3 tabs Ø 125 mm	11012252
Male sleeve Ø 124 mm	11012250
TRIDENT SHEET SLEEVE D125 H300	11022055
Lock washer Ø 125 mm	11087043

Filters

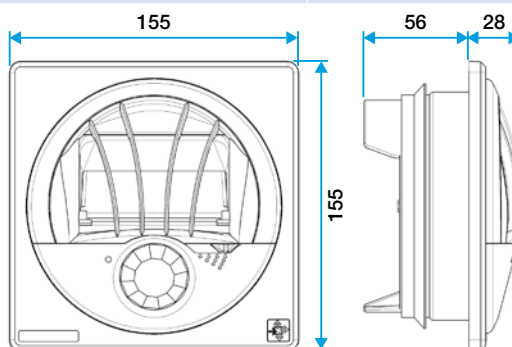
Description	Variants
Power supply 12 VDC - 30 W Fuse	11017161

General data

Variants	Colour
11017107	Lagoon blue

Dimensional data

Variants	H (mm)	L (mm)	Ø connection (mm)	Weight (kg)
11017107	155	155	125	0,27



Airflow data

Variants	Other adjustable airflows (m³/h)	Basic airflow (m³/h)	Pressure range (Pa)	Tolerance on airflow
11017107	25, 50, 75 or 90	7,5	100-160	15%

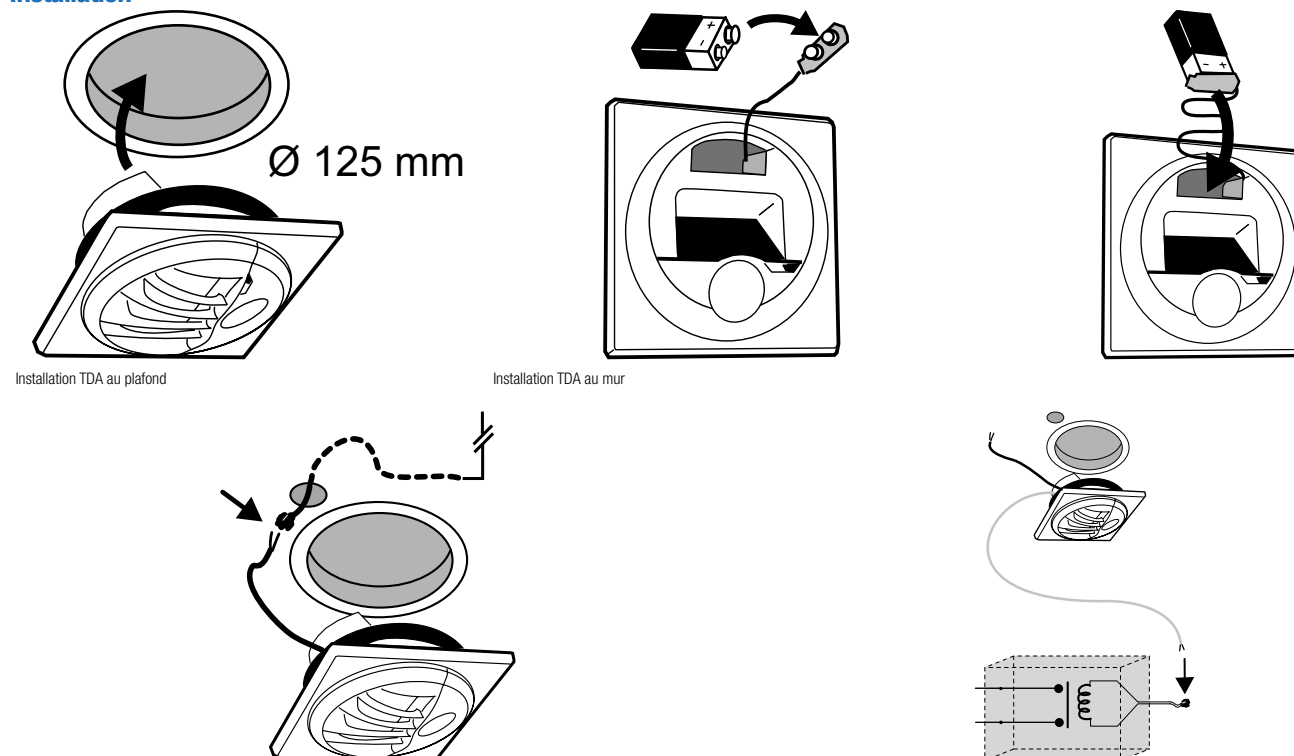
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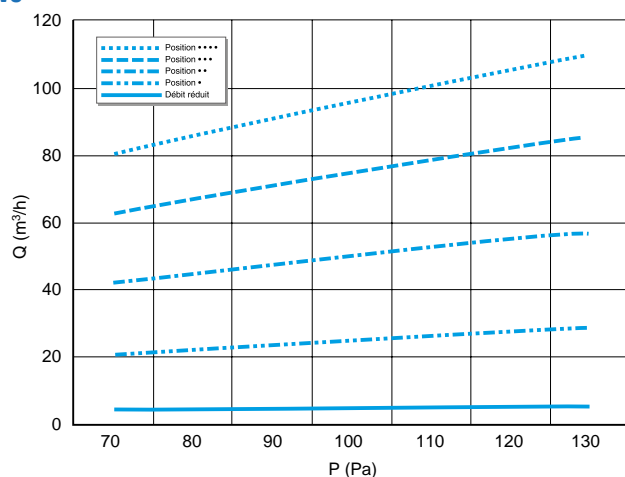
Acoustic data

Variants	Lw at Pa (dB(A))
11017107	30-100 Pa -25 m3/h

Installation



Curve



- > standard airflow manually adjustable by selector: 25, 50, 75 or 90 m3/h.
- > airflow automatically reduced if no presence detected: 7.5 m3/h.
- > The airflow is calibrated at 100 Pa.
- > TDA operating range: 100 to 160 Pa.
- > In these installation conditions, the relative variation in airflow on each terminal is limited to 15%.