GRUNER
SWITCH TO INNOVATIONS

Technical data sheet

GT-VM-DS6
VAV transmitter



Description

Transmitter for measuring and monitoring of volumetric flow

- Nominal voltage 24 VAC/DC
- Feedback signal (0)2...10 VDC
- Sensor 600 Pa (static)
- Communication PP-Bus

Technical data

Electrical data	Nominal voltage	24 VAC/DC, 50/60 Hz
	Nominal voltage range	19...29 VAC/DC
	Power consumption	0,6 W
	Wire sizing	1,3 VA
	Feedback signal	(0)2...10 VDC, max. 0,5 mA
	Connection	cable 1000 mm, 3 x 0,75 mm² (halogen free)
	Connection GUIV	via feedback signal U
	Communication	PP-Bus (1200 Bd, max. 15 VDC)
Sensor	Calibration	600 Pa, static measurement principle
	Measuring range	0...600 Pa
	Burst pressure	1 bar
	Nominal value	damper manufacturer specific value Vmin / Vbtw / Vmax based on Vnom
	Media	air 0...70°C / 5...95% r.H., non condensing
	Mounting position	independent of position

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Technical data

Sensor	Connection	Tygon-ST (R-3607), PA66 GF25 V0 tube clip Ø 4-6 mm
Functional data	Attachment	fastening tabs on the device slot 7,5 x 5,5 mm
Safety	Protection class	III (safety extra-low voltage)
	Degree of protection	IP 54 (cable downwards, tube clip plugged)
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature normal operation	0°C...+50°C
	Storage temperature	-20°C...+80°C
	Ambient humidity	5...95% r.H., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions / Weight	Dimensions	76 x 71 x 67 mm
	Weight	250 g

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Functionality / Properties

Operating mode

Connect power supply to wire 1+2 and a differential volumetric air flow is measured by the Gruner-Transmitter. The flow is displayed in m3/h or l/s and is provided a analog in % related to Vmin and Vmax. It can be used as feedback signal on wire 4. Another possibility is to use the signal as analog output (additional interface).

Edit

The selector allows the changing of values. The position of the arrow shows the value set. The changes are displayed as soon as the selector is moved ±10° from the position.

Flow

Setting the desired actual volume flow unit in m³/h and l/s.

Vmin

Adjust the desired flow Vmin (setpoint Y = 0 / 2 VDC).

Vmax

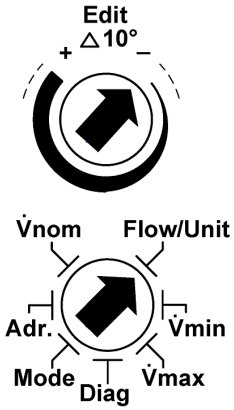
Adjust the desired flow Vmax (setpoint Y = 10 VDC).

Mode

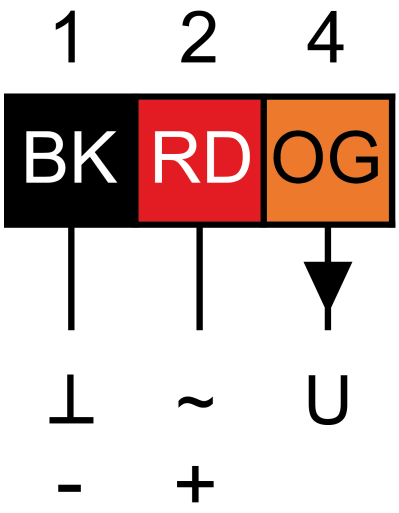
Signal:
0-...0-10 VDC
2-...2-10 VDC

Vnom

Setting the nominal volumetric flow depending on the VAV-box.



Connector / Security Note



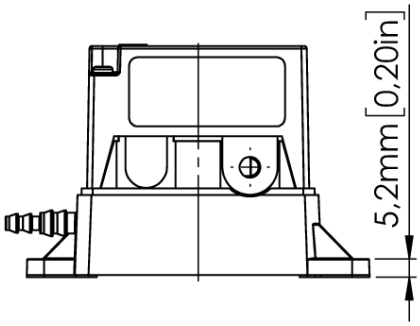
Safety remarks

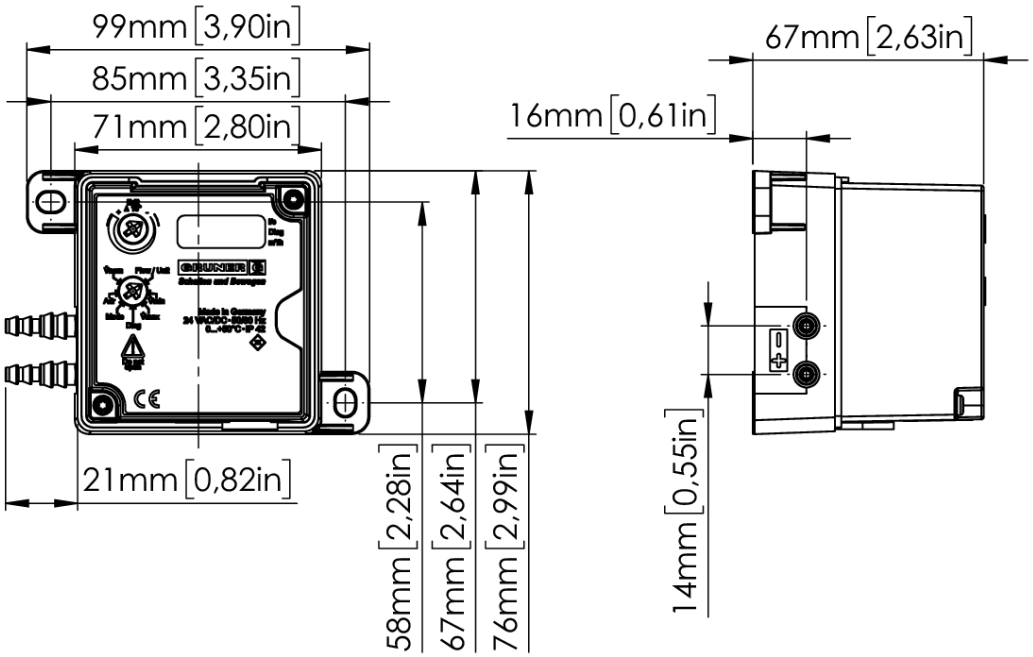
- Connect via safety isolation transformer!
- The device is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer´s site.
- The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

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Technical Drawing





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