

COMMUNICATION BUS



ASCII TERMINAL

Easy-STAT



**GRUNER G**

VAV CONTROL with Easy-STAT & GRUNER actuator

## DESCRIPTION

Easy-VAV is a high power VAV controller that can operate stand alone or under supervisory control. The Easy-VAV communicates directly with the Gruner 227V VAV compact actuator via PP Bus. Easy-VAV features highly flexible supervisory control or local access to all points, including direct manual control of outputs.

The Gruner 227V VAV compact actuator contains a dynamic differential pressure sensor. The volume flow is measured according to the defined flow direction. An integrated microprocessor controls measurement and control of the actuator and communication.

The 227V VAV can be used for pressure independent control of VAV boxes. Simple realisation of different operating modes can be utilised by using override control signals.

## FEATURES

- High scan rate, high accuracy industrial grade Controller
- Big easy-to-read 4 digit LCD display with thumb wheel knob for quick changes to all control parameters
- Designed specially for Gruner 227V VAV compact actuator
- PP Bus Communication with Gruner actuator
- Temperature, set points, plus three external input, 3 relay drive outputs and 2 Analog outputs
- Separate relay board for control of up to 6 relays
- Keypad and terminal (or PDA) access to all functionality
- Real time display for set up
- EPROM setup programmed via serial port
- Password protected access to all tuning parameters
- Adjustable minimum and maximum values for all points
- User defined look up tables for sensor inputs
- Switching power supply for high noise immunity
- Plug & play when tied to Walker products

## GRUNER VAV ACTUATOR

- 227V VAV Compact 5Nm or 8Nm actuator with integrated pressure transducer
- All the parameters are programmed via PP Bus
- Visit [www.gruner.de](http://www.gruner.de) for more information

## COMMUNICATIONS PROTOCOLS

- Walker I/O BUS (plug & play)
- Walker OPI
- Johnson's N2
- MS/TP BACnet
- Other third party protocols

## APPLICATIONS

Designed for new or existing systems, the Easy-VAV controller(s) may be applied to pressure independent terminal boxes with or without reheat capabilities.



### PC, LAPTOP or PALM PILOT

Direct or terminal access

RS-232



Combined I/O boards (EXPD-series) mount on top of main board (connecting to both E3 and E4) to make compact packages for specialty or OEM applications.

IOB



WALKER I/O BUS



Proportional control of fan system and economizer



Easy-VAV full setup and control for Gruner Flow Controllers/Motors



## SPECIFICATIONS

### Interface

- Thumbwheel knob (access to setpoints) in °C or °F or Warmer/Cooler
- LCD (Optional): 4 7-segment digits
- 1 or 3 button keypad option with LED override indication

### Temperature Sensor

3K thermistor (+/- 0.2°C, +/- 0.36°F)

### Connectors

RS232, jumper selectable RS485 or I/O BUS available.

### Switching Power Supply

- 24VAC (18Vac to 30 VAC) or 9 to 12 VDC
- Output drive for 24/120/240Volts through external relay board.

### Clock (optional)

Real time clock with capacitor back up

### Inputs/ Outputs (optional)

Using terminal or relay board

- 4 universal Inputs
- 3 universal Inputs with Gruner interface
- 2 analog Outputs (0-10Vdc @ 20mA)
- 6 digital Outputs for relay drive (20mA contact closure to ground)

### Signal Inputs

- 0 to 5Vdc with 3.0K 1% pull up
- PP Bus from 227V

### Dimensions in mm (inches)

