



Il successo del vostro progetto è nell'aria...

VRTMT

AC FANS SPEED CONTROLLER

The FAE electronic voltage regulator is normally used to regulate the speed of fans to control the pressure or temperature in machines for air conditioning, refrigeration and remote condenser. VRTMT operates on the basis of the inputs received through the measurements, the parameters settings values, the controlling I/O and the control panel. The control panel is used to set the parameters values and read the information about the I/O status, by a simple and guided software, through the following languages: Italian, English, Spanish, French, German, Russian. VRTMT has some pre-loaded settings that make it easy and rapid to use. VRTMT can function as Master mode (Heat/Cool) or Slave. While functioning as Master it supplies the fans with a directly (inversely in heating cases) regulation proportional to the detected pressure/temperature variation according to the parameters established in the programming. While functioning as slave the regulator works as a simple voltage regulator whose command signal comes from a remote controller. VRTMT is provided with Modbus connection to dialog with a supervising remote device.

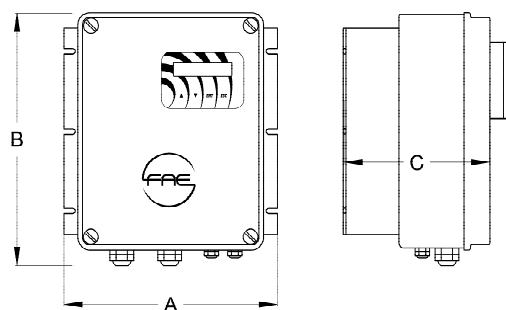
Standard serie features:

- Power supply 230/400Vac 50-60Hz,
- Working temperature: -25T50°C (-25°C with oled display, -20°C with lcd display) with IP55 grade; Storage temperature -40T80°C,
- 1 analog input 4..20mA / 0,5..4,5V / NTC for direct command from pressure sensor, NTC temperature sensor or from remote 0..10V= command,
- Digital inputs for: start/stop, emergency ext. (motor thermal contact), low power/speed, direct/reverse function (cycles Heat/cool or 2 cycles cool),
- Aux outputs +V and +5V for sensors or potentiometer power supply,
- 1 configurable Relay: emergency (inside overheating, missing sensor, motor overheating, phase lost), pressure reached, adiabatic cycle,
- ModbusRTU Slave transmission,
- Protections: Class II for command input (4kV), class I as regards the accessible parts,
- Norms : EN60730-1, EN61800-6-3



Model	Current (A)	Weight (kg)	Dimensions (mm)		
			A	B	C*
VRTMT 8	8	2,5	230	165	150
VRTMT12	12	4	230	265	165
VRTMT20	20	4,8	230	265	230
VRTMT28	28	7	340	270	235
VRTMT40	40	9	340	270	235
VRTMT50	50	17	340	440	235
VRTMT60	60	18	340	440	235

C* = increase value of 29mm with polycarbonate door.

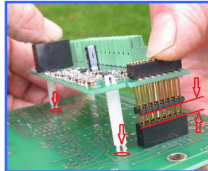


VRTMT can be request also with:

- Internal clock weekly to control the reduced speed, and for a more precise diagnosis
- Oled display for a perfect parameters reading/editing also with a very low temperature,
- Door for control panel protection.

VRTMT performance can be enhanced with the additional S1 card (not for VRTMT8) for the following I/O:

- 1 analog input 4..20mA / 0,5..4,5V / NTC for direct command from pressure sensor or temperature NTC sensor,
- 1 configurable output 0..10V,
- 2 configurable relays,
- 1 analog input NTC for ambient sensor.



PARAMETERS MENU FACTORY

Designed for a simple and effective programming allows you to load a set of pre-selected settings for Chiller, Dry cooler, Slave.

There are available the functions of cos-phi, profile-reg., Kick start, min.-max limit, sopers. for better load regulation.

It is possible to manage the internal relays to activate the spray circuits for adiabatic cycles or fans on-off. Inside the menu Diagnosis is possible to read the date and time of intervention of each alarm (with optional clock).

Through the Modbus communication is possible:

- Read and modify any parameter
- Control the regulator

MENU OF STATE

Designed to control all the inputs and outputs:

- View in real time the temperature/pressure Measured,
- Defines the voltage supplied to the motor,
- Defines the digital inputs state: Start, Emergency, lim. speed, Direct / Reverse,
- Defines the state of the relays,
- Defines the presence of an alarm failure.

