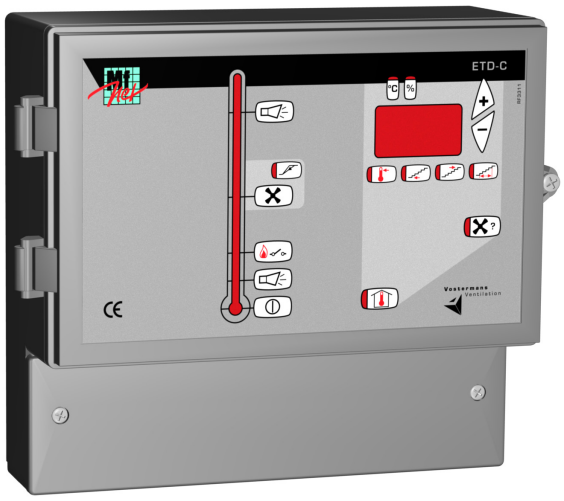
ETD-C

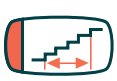
Digital Electronic Step Thermostat

The ETD-C enables climate control by direct fan control based on temperature by sequentially switching fans on and off (cascade). It offers the possibility to control a heater and an alarm. Minimum and maximum ventilation level is adjustable. The ETD-C is equipped with an auto cooling down correction, an empty room function, a programmable 0-10V output signal for controlling an air inlet or fan. The maximum total current is 10 Amps for all relays together. To deal with higher currents or to drive three-phase fans additional contacts could be necessary.

Benefits
- Low initial investment
- Easy to install
- Easy to operate
- Applicable for both new and existing ventilation systems

Features
- Control for sequentially switching fans on and off in 5 steps
- Auto cooling down correction (bandwidth compensation)
- Heater relay contact
- Alarm relay contact
- Empty room function
- Independantly programmable 0-10V output signal for air inlets or additional controllers
- Built-in voltage and current protection
- Ventilation status read-out
- Temperature sensor included

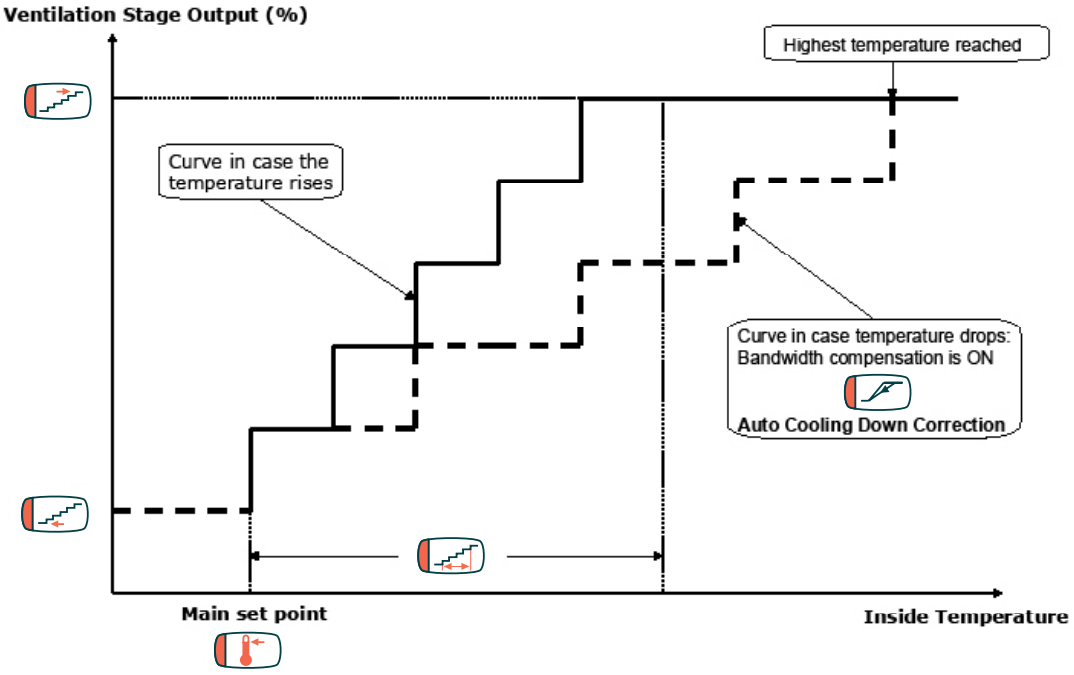


Inputs	Adjustments		Outputs
Temperature sensors		Set point • ventilation • heater • alarm (min. and max.) • 0-10V (air inlets)	Ventilation control
		Minimum values • ventilation • 0-10V (air inlets)	0-10V for air inlets or additional controls
		Maximum values • ventilation • 0-10V (air inlets)	Heater relay contact
		Bandwidth • ventilation • 0-10V (air inlets)	Alarm relay contact

Specifications ETD-C

Definition	Min.	Typ.	Max.	Units	Notes
Controller Type					Electronic Step Thermostat (relays)
Mains supply	207	230	253	V	Single-phase
Mains frequency	50		60	Hz	
Fan output steps	1		5		
Fan current	0,5		10	A	All relays together
Heater relay contact			8 250	A V	
Alarm relay contact	10		 2	mA A	24V DC or 24V AC max.
0-10V output			30	mA	
Temperature sensor resistance		10K (25 °C)		Ω	NTC, moulded in plastic housing
Temperature display readout	-40		50	°C	
Accuracy on temperature reading		±1		°C	
Housing					IP54 plastic housing
Weight (unpacked)		1,7		kg	
Dimensions (W x H x D)		267 x 225 x 104		mm	
Operational temperature	0		40	°C	
Storage temperature	-15		50	°C	
Ambient relative humidity			95	%	

Control Diagram ETD-C



Vostermans Ventilation developed the open modular system Mf-Net for various applications. Mf-Net is applied in agricultural and industrial market segments.

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Vostermans Ventilation B.V. develops, manufactures and distributes the full line of:

Mf Net

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