

## Digital Electronic Step Thermostat (cascade)

The ETD-CN 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-CN is equipped with an auto cooling down correction, an empty room function and several 0-10V output signals for controlling air inlet, ventilation and heaters. 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.

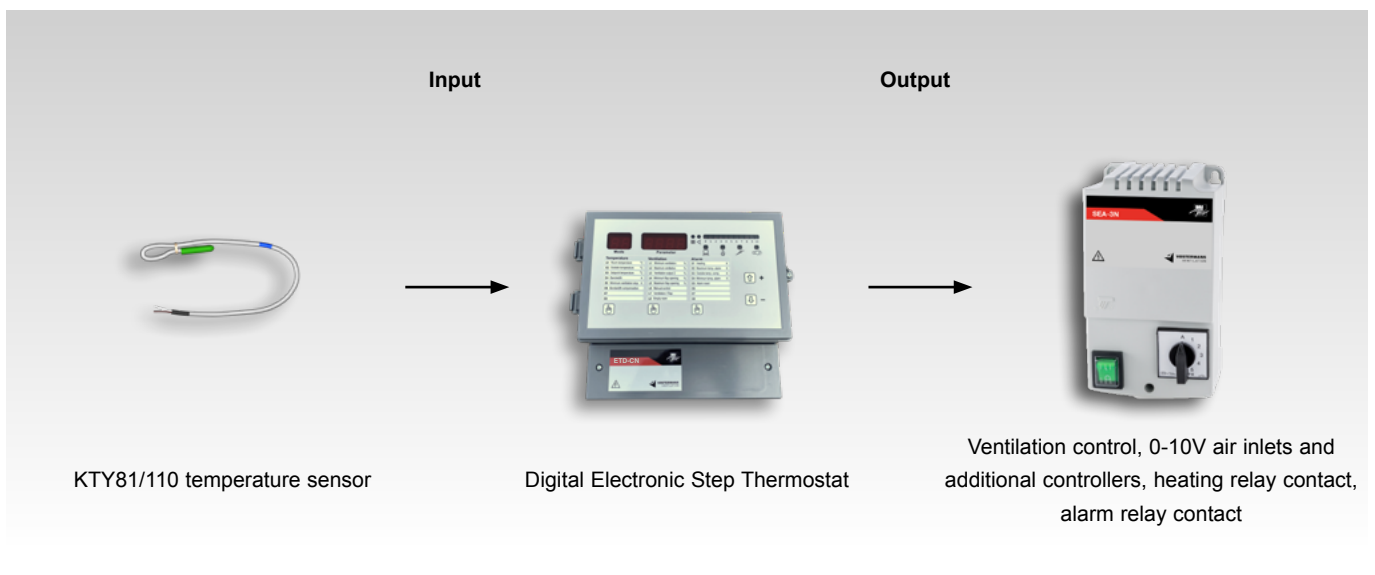


### Benefits:

- Low investment
- Easy to install
- Easy to operate
- Applicable for both new and existing ventilation systems
- Suitable for 1~ and 3~ fans

### Features:

- Control for sequentially switching fans on and off (cascade). Adjustable from 2 to 7 steps.
- 0-10 V output signal for:
  - 1 fan controller
  - valve control
  - heater
- Relay outputs for:
  - alarm
  - heating
  - Switching on 2nd fan
- Integrated voltage and current protection
- Readout of ventilation status
- Includes two temperature sensors for inside and outside temperature





## Specifications ETD-CN

Definition	Min.	Type	Max.	Remarks
Type of controller				Electronic Step Thermostat cascade (relais)
Fuse (ventilation output)		None		
Mains supply	196 V	230 V	253 V	1~
Mains frequency	50 Hz		60 Hz	
Ventilation output current	0 A		10 A	Cumulative maximal current
Ventilation output voltage			250 V	
Lüftungsstufen	2		7	
0-10V Output		0-10V / 10-0V		Max. 10mA
Bypass relay	12V, 10mA	Single-pole changeover contact	250 Vac, 2A	
On/Off heating relay	12V, 10mA	Single-pole changeover contact	250 Vac, 2A	
Alarm relay	12V, 10mA	Single-pole changeover contact	250 Vac, 2A	
Temperature sensor		KTY81/110 PTC		1KΩ at 25 °C
IEC61140 class		1		
Housing				IP54
Weight (unpacked)		2.0 kg		
Dimensions (l x w x h)		267 x 225 x 104 mm		
Operating temperature	-10 °C		40 °C	
Storage temperature	-15 °C		50 °C	
Relative humidity			95 %	Non-condensing

### Why choose Vostermans Ventilation:

#### LOYAL TO YOU

We care for your specific needs based on our long expertise. In close cooperation with you we secure your business outcomes.

#### RELIABLE

Since our foundation in the Netherlands in 1952, we maintain our reputation as reliable partner. Our carefully selected global network of independent distributors strive to deliver you dedicated service and expertise.

#### FUTURE PROOF

Our future proof approach, which combines energy efficiency solutions with robust quality and rigorous testing, is based on a genuine commitment to serve as a trusted partner.

Vostermans Ventilation is a global developer and manufacturer of sustainable axial fans for the agricultural and industrial market. Sustainability is key for Vostermans. Their premium brandlines Multifan and EMI are showcasing the drive for advanced energy efficient fans. The company applies continuous innovation and research in their own motor production facility and in house state of the art R&D department. Vostermans Ventilation, part of Vostermans Companies founded in 1952, is based in Venlo, the Netherlands and operates in USA, China and Malaysia.



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Venlo - The Netherlands  
Tel. +31 (0)77 389 32 32  
[ventilation@vostermans.com](mailto:ventilation@vostermans.com)

Bloomington, IL- USA  
Tel. +1 309 827-9798  
[ventilation@vostermansusa.com](mailto:ventilation@vostermansusa.com)

Tmn Klang Jaya - Malaysia  
Tel. +60 (0)3 3324 3638  
[ventilation@vostermansasia.com](mailto:ventilation@vostermansasia.com)

Shanghai - China  
Tel. +86 21 5290 2889/2899  
[ventilation@vostermanschina.com](mailto:ventilation@vostermanschina.com)