



Helios creates a simple solution by combining fans and customer-specified central building control technology with these speed control units!

Common features

- Control via analogue 0 – 10 V input through on-site signal, electronic control system EUR 6 C or other control units.
- Multiple different fans can be connected to a control unit up to the maximum control current load.
- Multiple control devices can be controlled in parallel by the building control technology and this enables the distribution of fan power to multiple fans or fan groups and circuits.
- **Accessories for both series**
In case control is not via central building control technology, universal controller with 10 V output can be used for this purpose.

EUR 6 C Ref. no. 01321
See Electronic control system page for description.

Description ESD

Convenient, continuously variable electronic speed controller for 3~ fans, which can be phase angle-controlled by voltage reduction (except KVD Ex types). State-of-the-art technology through use of microcontrollers.

■ **Setting options/Display**

- On/off and continuously variable speed specification through rotary potentiometer.
- 0 – 10 V input. Remote control possible through on-site rotary potentiometer (22 kOhm).
- 3 ~ phase monitoring, protection against phase loss.
- Soft start-up function.
- Automatic minimum start-up voltage 80 V.
- Meets EMC requirements class B, shielded cable between unit and motor not required.
- LEDs as status and fault indicators.
- Integrated protection of electronics against overload.
- Motor protection by monitoring the motor's thermal contacts.

■ **Casing**

- Plastic casing, light grey with wide cooling element.
- Can be used directly in heavily contaminated environments (e.g. kitchen) due to protection category IP65.

■ **Product range**

Type	Ref. no.	Output current	Power consumpt.	Wiring diagram	Dimensions			Width cooling element	Weight	Prot. cat.
					W	H	D			
		A	kW	No.	mm	mm	mm	mm	ca. kg	IP
For three-phase current fans, 3~, 400 V, 50/60 Hz										
ESD 5	00501	5.0	2.2	831	115	160	165	23	1.5	65
ESD 11.5	00502	11.5	5.5	831	160	160	165	68	1.7	65

Description ETW

Seven-step, electronic transformer control unit for controlling the speed of 1~ fans. Robust and low-loss power units for ventilation systems which are controlled via central building control technology.

■ **Setting options/Display**

- Built-in operating switch enables on, off and direct mains connection.
- Performance level rotary switch allows manual step specification (1–7) or automatic operation. The transformer control unit is automatically controlled by the on-site ventilation control system in the "Auto" position.
- The respective performance level is indicated by an LED.
- The integrated minimum air flow rate circuit can be switched off completely by the ventilation controller via the analogue input.

■ **Overload protection**

ETW types are protected against permanent overloading by a built-in temperature switch. When the overload protection is activated, the control unit automatically switches to the direct mains power supply. The control unit returns to normal operation after a cooling down phase. The fault can and should be indicated via the signal output to an on-site alarm system.

■ **Casing**

- Plastic casing, light grey.

■ **Dimensions**

Type	Ref. no.	Dim. mm			Weight approx. kg
		W	H	D	
ETW 5	01263	240	315	210	8.0
ETW 10	01264	240	315	210	12.5

■ **Product range**

Type	Ref. no.	Outlet current	Outlet voltages Steps							Wiring diagram	Prot. cat.
			1	2	3	4	5	6	7		
		A	V							No.	IP
For alternating current fans, 1~, 230 V, 50/60 Hz											
ETW 5	01263	5.0	80	95	115	135	165	195	230	683	54
ETW 10	01264	10.0	80	95	115	135	165	195	230	683	54