



# Trinc-1



## Integrated Triac Controller

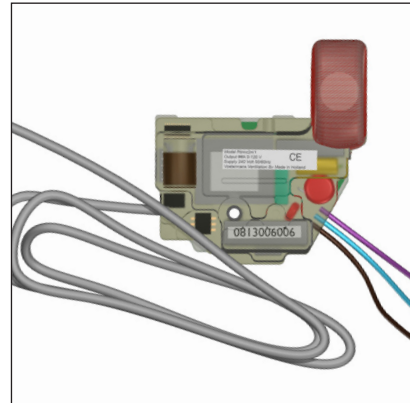
The Trinc-1 enables continuously variable speed control for single phase fans. It is integrated in the fan motor. By detecting the speed of the fan motor it can correct speed variations. As a consequence the end-user is assured that the correct Revolutions Per Minute (RPM) are maintained, independent of external wind or pressure influences.

### Benefits

- Low investment
- Accurate speed control (RPM)
- No external power stage necessary
- Applicable for both new and existing Multifan Q-Line and Mf-Flex motors

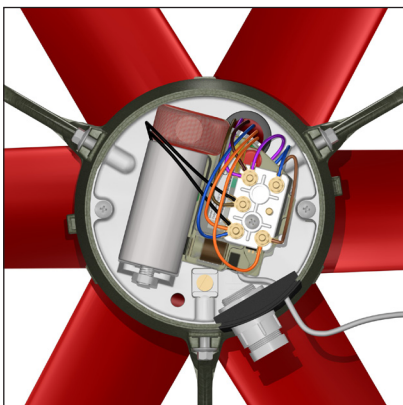
### Features

- Multiple controller inputs
  - 0-10V
  - Potentiometer (example application: mobile fans)
  - EMI data signal
- The Trinc-1 can be used with or without RPM feedback magnet
- Automatic fan speed detection mechanism



## Encapsulated Electronics

The Trinc-1 power module is encapsulated via an innovative low pressure injection moulding technology. Similar techniques are applied in the automotive industry where reliability under harsh conditions and compact design are key factors.



### Benefits

- Optimal protection against harsh environmental influences:
  - Humidity
  - Mechanical stress
  - Aggressive gases
- High reliability

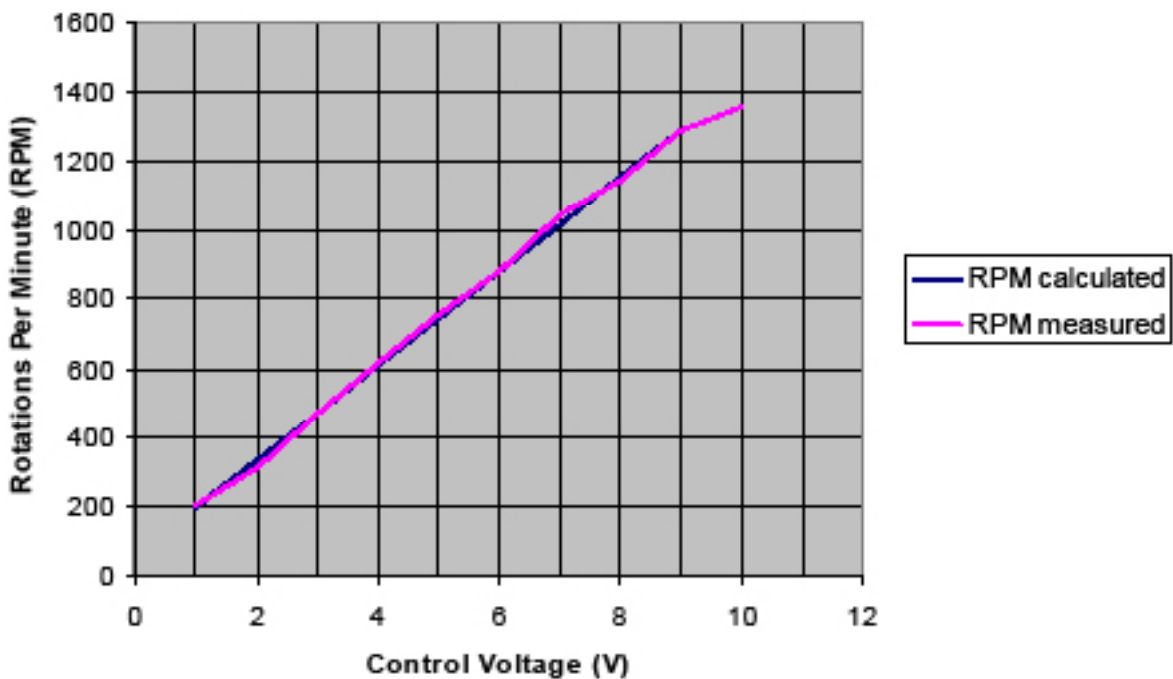
### Features

- Minimal dimensions enabling retrofits in existing Q-Line and Mf-Flex applications

## Specifications Trinc-1

Definition	Min.	Typ.	Max.	Units	Notes
Controller Type					Triac controller
Mains supply (Vin)	200	230	264	V	Single-phase
Mains frequency	50		60	Hz	
Max. output power			875	VA	
Fan output voltage	55		Vin-5	V	Function of input voltage
Fan output current	0,5		3,8	A	
Input speed control	0		10	V	
Input impedance		25		kΩ	At 10V input
Max. signal cable length	0		300	mtr	Cable size: AWG 18/1 mm <sup>2</sup>
Speed accuracy		± 20		RPM	
Housing					IP55
Operational temperature	0	25	75	°C	
Storage temperature	-20		80	°C	
Ambient relative humidity			95	%	Non-condensing
Potentiometer value	10			kΩ	

## Control Diagram Trinc-1 (at 50Hz)



**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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