

Product information



Big Dutchman

Big Dutchman International GmbH
Big Dutchman Pig Equipment GmbH
P.O. Box 11 63 · 49360 Vechta · Germany
Tel. +49(0)44 47-801-0 · Fax 801-237
big@bigdutchman.de · www.bigdutchman.de

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MC 31 control unit / speed control

The MC 31 is a one-phase triac speed controller for the adjustment of fans, heating or light (only bulbs). Advantageously, it can be applied where a complete climate control is unnecessary. This phase control is available with 6.8A and 16A.



Technical data	
Mains supply	110 / 230 VAC \pm 10%
Power frequency	50 / 60 Hz
Max. output	6,8 A or 16A
Min. output	150 VA
Inputs	0-10 V or DOL 12
Outputs	Analog 0-10 V 24 V, 100 mA 24 V alarm relay 230 V control relay 60-230 V Triac-output
Ambient temperature	-0 to 40°C
System of protection	IP 54
Dimensions WxHxD	261x162x120mm
Weight	1.9 kg

Fig. 1: MC 31 speed control

The MC 31 can be applied in the following manner:

- **Automatic-Master mode (self-control, temperature-controlled)**

This mode is suitable for the control of fans or heat adjustment. The output of the MC 31 is controlled on basis of the ambient temperature measured by a DOL 12 temperature sensor which is optionally available.

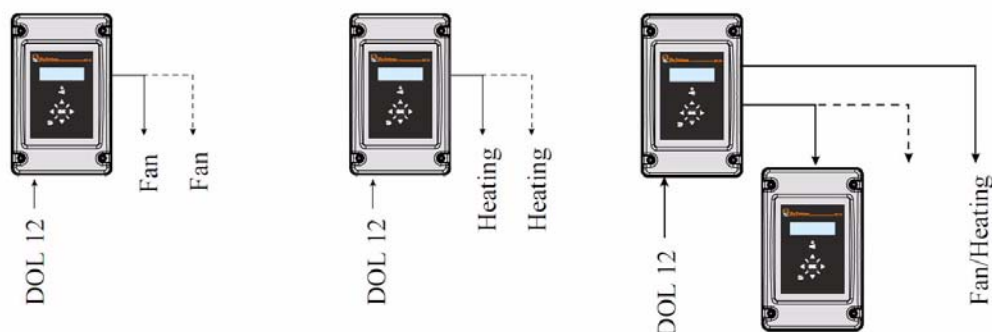


Fig. 2: MC 31 in Automatic-Master mode

- **Automatic-Slave mode (external control via analog signal)**

In the "Slave"-mode, the output of the MC31 is controlled via a 0-10V input signal. This control can be done by a Big Dutchman house computer or any other control (0-10V).

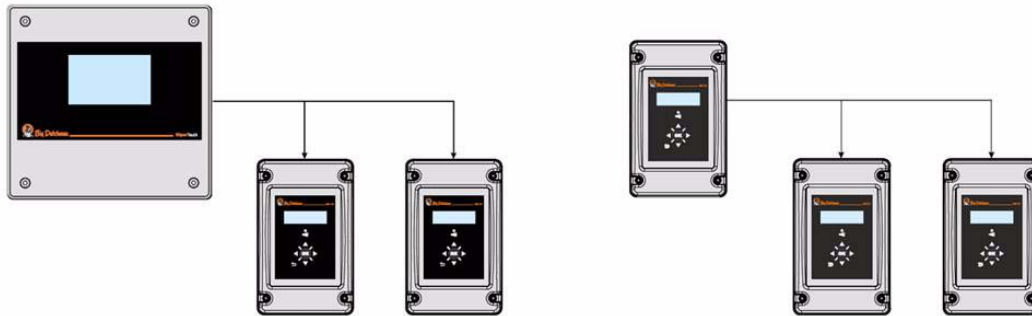


Fig. 3: MC 31 in Automatic-Slave mode

- **Manual control**

The MC 31 output is manually set by means of the keyboard on the front side. It can be adjusted in a range of 26 to 100%.

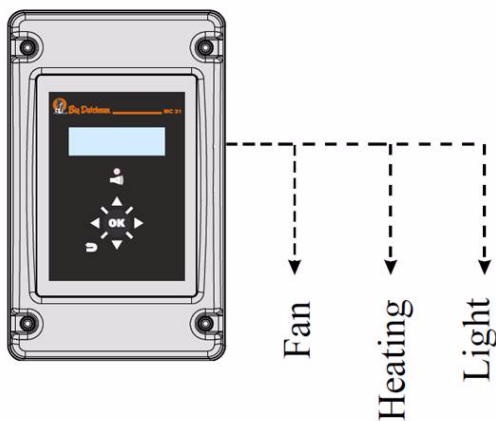


Fig. 4: MC 31 manual control

A Hand-0-Automatic switch is installed on the side. Thus, in case of a failure of the MC 31 a mechanic bypass can be switched. Furthermore, the MC 31 is equipped with an alarm relay (max. 24V) and a control relay (max. 230V). The control relay could for example be used to switch a heat source on and off.

Speed control:

Code-No.	Description
60-40-0172	Control unit MC-31 0-10V speed controller 230V max 16A
60-40-0173	Control unit MC-31 0-10V speed controller 230V max 6.8A

Spare parts:

Code-No.	Description
60-40-0820	Board complete MC-31
60-40-0823	Basis-module 16A DOL/MC-31
60-40-0824	Basis-module 6.8A DOL/MC-31
60-40-0825	Display module 6.8A DOL/MC-31
60-40-0826	CPU module DOL/MC-31
60-40-0827	Cover without CPU module DOL/MC-31
60-40-0200	Temperature probe DOL-12

As soon as the stock of the discontinued MC 37 (60-40-0400) is exhausted, the MC 31 will be available as successor. Furthermore, it can be used as substitute for the EPU-12 control unit (60-49-0115). The MC 31 is used in all standard light controls with immediate effect.

Heinz Südkamp
- *Product Manager*-
Climate Poultry

Christian Kalkhoff
- *Product Manager*-
Control & Sensor Technology Poultry