

LCM

Analogue Master controller for single-phase asynchronous fan motors

AC AC fans

Single-phase

M Master



LCM is an **analogue controller** designed to operate in **Master mode**, with proportional control output via **mains-balanced phase-cut control**. It is ideal for speed control of **single-phase asynchronous motors (Class F)** installed on **axial, radial or centrifugal fans**, ensuring **precise and efficient** operation in systems dedicated to **air conditioning, refrigeration, heating, ventilation, destratification, forced-air heating and air handling**.

Available in the **8 A** version, **LCM** provides **continuous modulation** of the **AC voltage** from **0% to 100%**, based on the difference between the **control signal** and the configured **setpoint**. It is equipped with **one analogue input** for **Master mode**, compatible with **4-20 mA pressure transducers**.

Among the integrated functions is a **remote stop contact**, useful to synchronise **fan operation** with **compressor operation** or other **external events**, optimising the **control logic**.

In terms of safety, **LCM** includes **control input protection**, **overvoltage protection** up to **275 Vac**, full **galvanic isolation** between the **mains** and the **signal circuits**, a **Class B EMC filter**, and full compatibility with the main **earthing systems (IT, TT, TN)**.

Thanks to its **compact architecture** and **ease of use**, **LCM** is a **robust** and **effective** solution for managing **high energy-efficiency fan arrays**.

Rated current (RMS)

at 50 °C ambient temperature

8A

Supply voltage

Available options:

230 Vac ± 15%

50/60 Hz:

Manual

Control principle

Phase-cut control

Single-phase phase-cut control, mains-synchronised and line-balanced

Inputs

1 Input For sensors and control signals

The device is equipped with **1 analogue input** for **Master mode** for a **4–20 mA pressure transducer**, enabling **flexible** and **customised** management of the **fan system**.

4-20 mA

Control system

Proportional Master

Setpoint

1 Setpoint

Operating parameters:

Setpoint

Proportional band

Digital inputs

1 Input On/Off

Remote stop contact enabling automatic control management linked to compressor activation.

Remote Start/Stop

Technical specifications

Control input types	4–20 mA transducer
Number of motor connection outputs	2
Interface	Analogue
Electrical protections	<ul style="list-style-type: none">• Control input protection• Mains overvoltage protection
Protection ratings	IP55
Applicable earthing systems	Full compliance with international earthing standards IT / TT / TN
Operating temperature	-20°C / 50°C
Weight (kg)	1 kg
Dimensions H x W x D (mm)	158 x 138 x 93



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