



$\mu C^2$

## The new generation of air-conditioning controllers

**CAREL, a leader in the sector of chiller and heat pump control, is planning to upgrade its controllers and offer its customers new technologies and increasingly evolved software at increasingly competitive prices.**

For this reason, a new controller has joined the wide range of CAREL's air-conditioning solutions: new  $\mu C^2$ , characterised by a modern ergonomic display with a high degree of efficiency, and by an innovative local network (tLAN) that interacts with the new generation driver for the electronic expansion valve and with the expansion board (for the second circuit), completely re-designed for the DIN rail.

The current  $\mu C^2$  can manage up to 4 hermetic and 2 semi-hermetic compressors for a total of 2 circuits, with the possibility to manage one electronic expansion valve per circuit.

The new technologically advanced functions, like the EEV management, the smart defrost and the buffer tank suppression, reduce energy consumption and the production costs of the OEMs.

The new optional clock board allows management of time bands and other innovative functions such as low noise operation mode and data logging.  $\mu C^2$  is available in both panel and DIN rail versions.

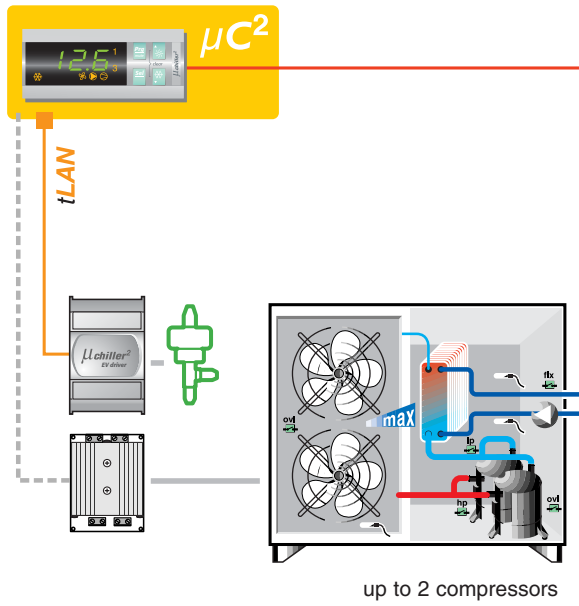
It allows easy connection solutions and gives the opportunity to use the new technology of the ratiometric pressure transducers, with the advantages of improved performance and cost savings.

The serial interface board, completely re-designed and featuring smaller dimensions and reduced costs, allows a simple and rapid installation even after the control had been installed.

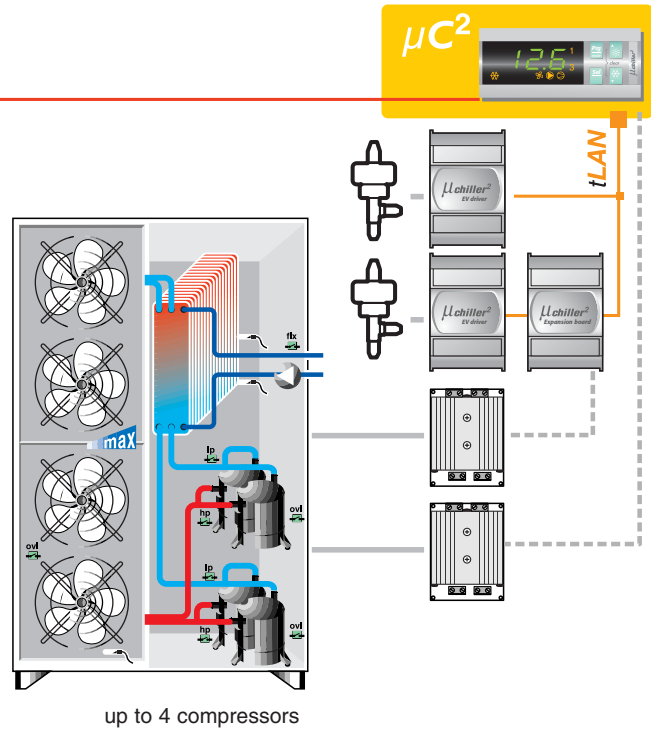
Finally, thanks to the integrated Modbus® protocol, it is possible to connect  $\mu C^2$  with the most widespread BMS systems.



**Application:**



RS485

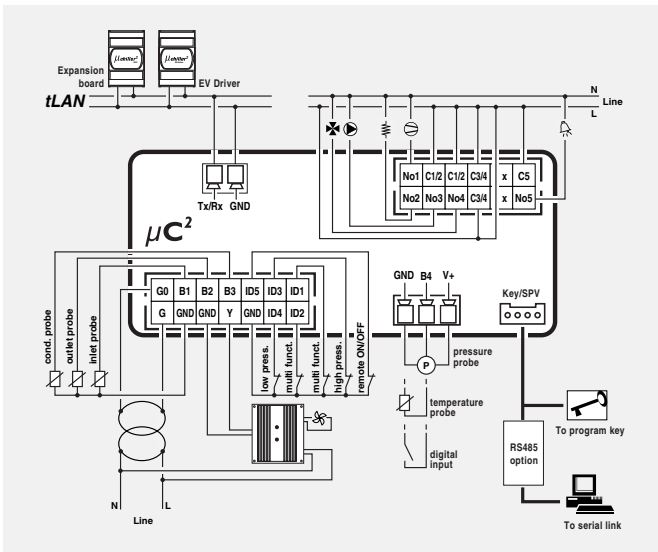


**Technical characteristics**

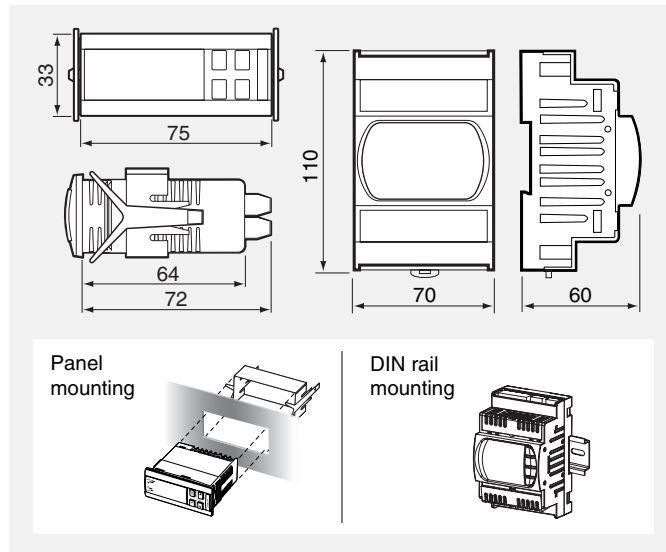
Supply voltage	24 Vac -15 to 10%, 50/60Hz
Maximum power input	3 W
Digital inputs	5 free contacts (2 of them multifunction)
Analog inputs	4 (3 NTC inputs, and one input that can be set as NTC/ratiometric press probe/digital inputs)

Digital outputs	5 relays - max. power supply 25 Vac - 3 A resistive, 2 A inductive
PWM output for the control of the fan speed	1
Serial port RS485 for supervisor/ Programming key	1
tLAN local network	1

**Electrical wiring**



**Dimensions (mm)**



CAREL reserves the right to modify or change its products without prior notice

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