





# The new generation of AC 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: the new µchiller<sup>2</sup>, characterised by a modern ergonometric 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.

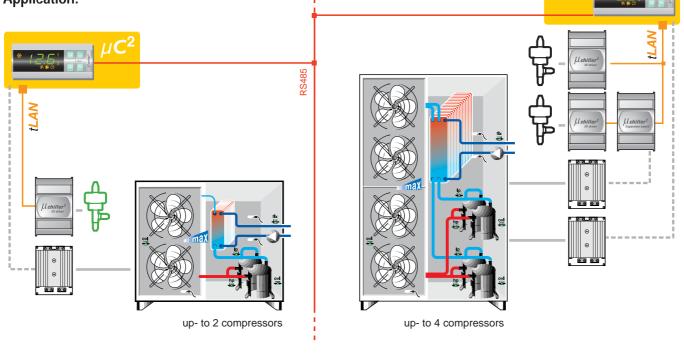
The current µchiller<sup>2</sup> can manage up to 4 hermetic and 2 semi-hermetic compressors for a total of 2 circuits, with the possibility to manage one electronic expansion valve per circuit.

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. µchiller<sup>2</sup> 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, even as a retrofit. Finally, thanks to the integrated Modbus<sup>®</sup> protocol, it is possible to connect the µchiller<sup>2</sup> with the most widespread BMS systems.



# Application:



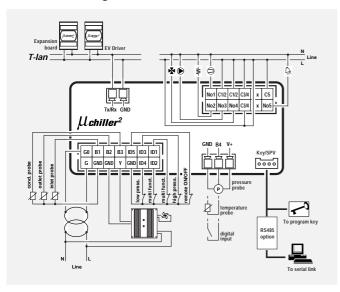
## **Technical characteristics**

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

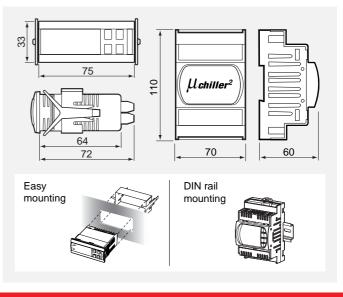
Digital outputs	5 relays - max. power supply 25Vac - 3A resistive, 2A inductive
PWM output for the control	1
of the fan speed	
Serial port RS-485 for supervisor	1
Programming key	
tLAN local network	1

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### **Electrical wiring**



### Dimensions





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