



LMC340i

Lodam Condensing Unit Controller

Datasheet

Version 8.0

Product description

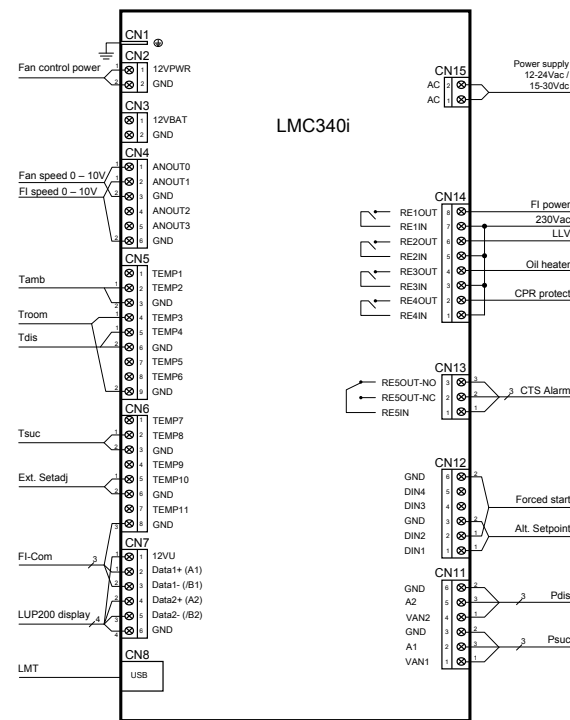
Lodam Condensing Unit Controller enable you to gain total control of your condensing unit to deliver cooling to one or more evaporators – thereby optimizing your system to save energy, time and money. Our Lodam Condensing Unit Controller is designed for most condensing units.

- Energy and cost saving through intelligent capacity control via frequency inverter or on/off control
- Eco or low sound fan mode
- 1 year data log
- Full graphical color display with individual foil keyboards differentiates you from competitors

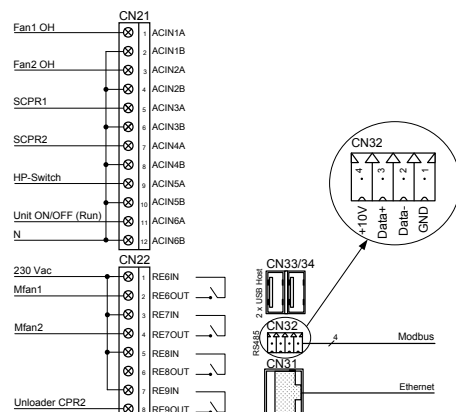
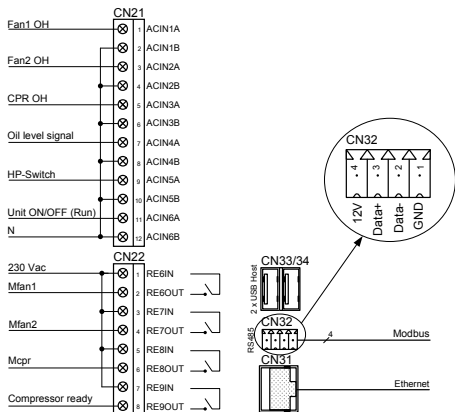
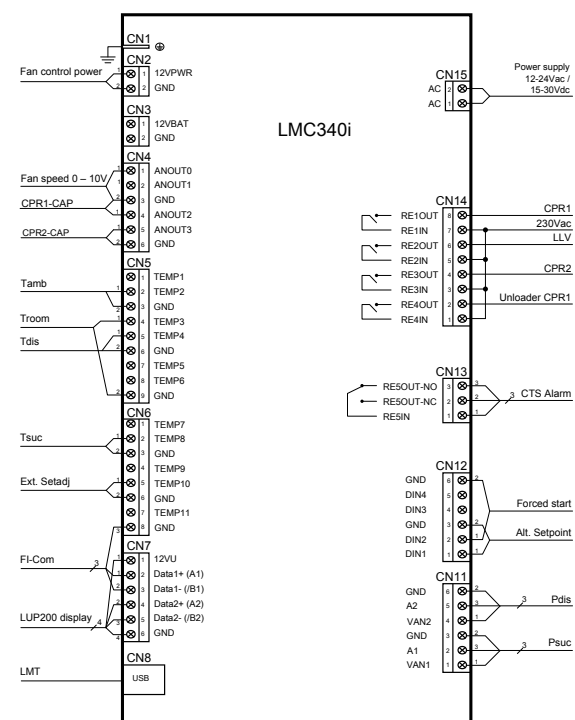
- Remote monitoring via web interface
- Weekly program with real time clock
- Easy installation and a quick setup guide
- Higher max. capacity of compressors using frequency inverters
- Refrigerant configurable - designed and ready for various refrigerants
- Use 2 compressors with unloaders for high capacity and intelligent capacity control

Connections

Single compressor



Dual compressor



Technical data

Technical specifications, LMC340i Condensing Unit controller	
Size	185mm (l) * 110mm (w) * 61mm (h)
Power supply	15 - 30VDC/12 - 24VAC 50-60 HZ; typical 4 VA, max. 15 VA
CPU	LMC340i ARM7 processor; Ethernet connection ARM9
Operating temperature	-20°C ~ +60°C
Storage temperature	-30°C ~ +60°C
Enclosure protection	IP20, pollution degree 2
Relative humidity	5% - 95%RH, non-condensing
Temperature inputs	3 for Lodam NTC sensors -40°C to +130°C, +/- 1°C accuracy; 1 is used for 0-10V input. Remaining temperature inputs are not used.
Analogue inputs	2, AI1 and AI2; 0-5V with 5 Volt supply for radiometric pressure transmitters; Rin: 25KΩ Use Sensata 2CP-49 for Psuc and Sensata 2CP-49 for Pdis or equivalent
Digital inputs	2; not galvanic isolated; 0 - 5V with pull-up resistor
High voltage digital input	6; 180-265VAC digital input. Double isolation to low power side
Analogue outputs	4, AnOut0 to AnOut3; 0-10V, +/- 3%, Rin > 10kOhm; max frequency 1Hz; not galvanically isolated
Relay outputs	9; RE1 to RE5: 10A 24VDC / 10A 250VAC; max 250VAC isolation between relays. RE5 is a toggle relay; max isolation 400VAC between relays. RE6 to RE9: 10A 24VDC / 10A 250VAC resistive, max 3A inductive load; double isolation to low power side; max. 250VAC isolation between relays
RS485 ports	2 with common 12V 100mA output; 1 used for display and 1 used for FI 1 with optional 120 Ω termination resistor; used for Modbus
USB ports	1 device mode mini B for software update and communication with a PC 2 USB host A connector for software update and future use
Datalog	Up to 1 year capacity
Real time clock	With 1 year battery back up
12VDC output	Up to 500 mA
Ethernet connection	1; 10/100 Mbit

Technical specification, LUP200i	
Display	262k colours, graphical display 320x240 pixels
Cabinet dimensions	135 mm (h) * 150mm (w) * 25mm (d)
Power supply	12 VDC
CPU	ARM7 processor
Operating temperature	-20°C ~ + 60°C
Storage temperature	-30°C ~ + 60°C
Enclosure protection	Front: IP 66 when mounted accordingly in cabinet1 Other: IP 00
Relative humidity	5% - 95%RH, non condensing
RS485 ports	1 port
USB port	1 mini B connector (device mode only); for future use
Display backlight lifetime	30,000 hours at 20°C and "normal" brightness
Display heater	24 VAC, max. 150 mA; thermo controlled
Number of buttons	6 buttons
Languages	English, German, French, Finnish, Spanish, Russian and Turkish
Cabinet mounting	8 pcs. 4 mm screws Max screw-in depth 6 mm Max tightening torque 3 Nm

Innovative and energy saving **climate control**

When it comes to climate control Lodam is one of the most experienced you can turn to. For more than four decades we have developed, produced and implemented electronic solutions dedicated to optimising applications like:

- Compressors
- Condensing units
- Heat pumps
- Air conditioning
- Refrigerated truck and trailer
- Reefer containers

We know the importance of reliable, energy-efficient operation – and constantly push technological boundaries to bring you the most innovative and forward-thinking solutions.

As part of the BITZER Group we are backed by one of the world's leading players in the refrigeration and air conditioning industry. This alliance provides us with extensive network and application knowhow and allows us to stay at the forefront of climate control innovation. And to help ensure comfortable surroundings for humans and reliable protection of valuable goods anywhere in the world.

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