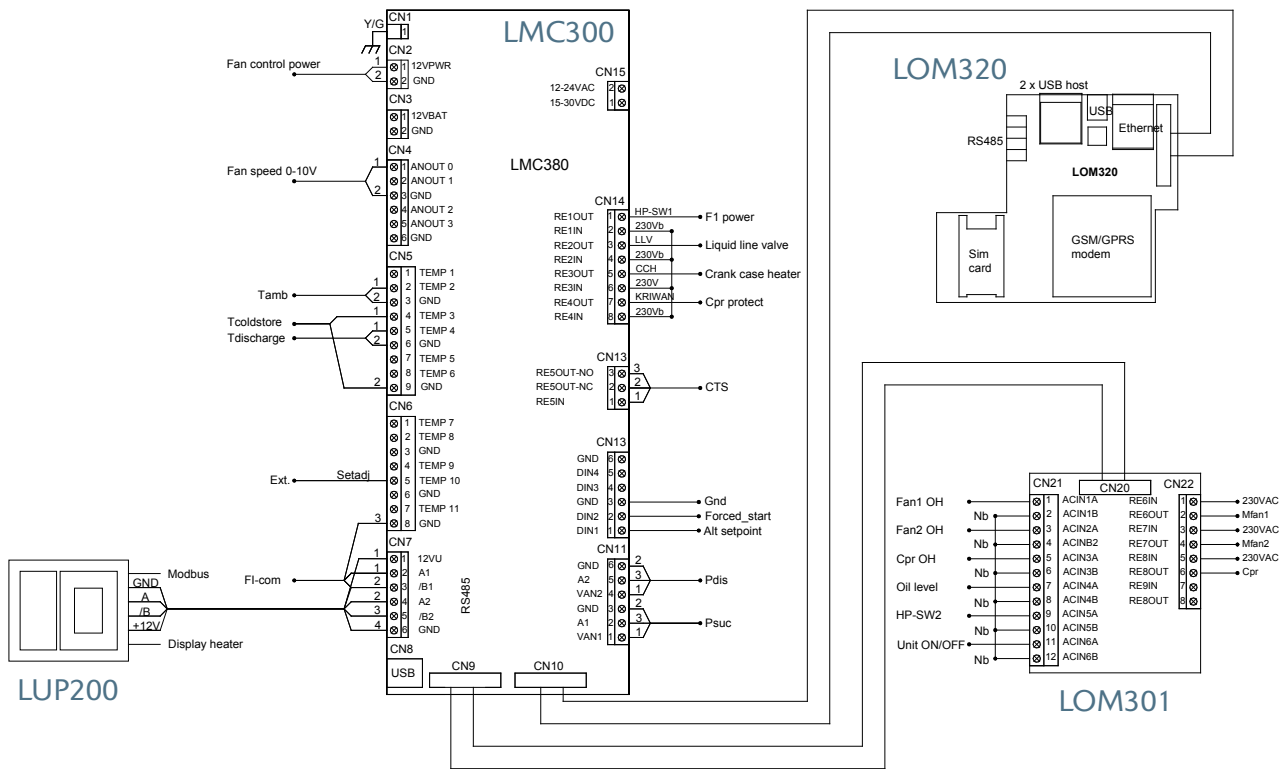


Connection diagram, LMC340



Technical specifications, LMC340 Condensing Unit controller + LOM301 Slave I/O board:

Size	175mm (l) * 100mm (w) * 43mm (h)
Power supply	15 - 30VDC/12 - 24VAC 50-60 HZ
CPU	SAM7S512, 32bit 48 MHz - 512kB program memory
RAM	64kB
Flash	8 MB (Program and datalogger)
Saving of parameter setting	10 kB
Operating temperature	-20°C ~ +60°C
Storage temperature	-30°C ~ +60°C
Temperature inputs	3 for Lodam NTC sensors -40°C ~ +99°C, +/- 1°C accuracy; 1 is used for 0-10V input; remaining are not used
Analog inputs	2, AI1 to 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
Analog outputs	2, AO1 to AO2; 0-10V, +/- 3%, max 5mA; max frequency 1Hz
Relay outputs	5, RE1 to RE5; 10A 24VDC / 10A 250VAC; max 250VAC isolation between relays. RE5 is a toggle relay; max isolation 400VAC between relays
RS485 ports	2 with common 12V 100mA output; 1 used for display and 1 used for FI
USB port (slave mode only)	1; for software update and communication with a PC
Option connectors	2; 24 pins for option boards (1 used for option board LOM301, 1 used for Ethernet board LOM320)
Real time clock	With 1 year battery back up
12VDC output	Up to 1A
Digital outputs	4; relay NO outputs; max 250VAC @ 10A resistive, 3A inductive load; double isolation to low power side; max. 250VAC isolation between relays
VAC detect input	6; 180-265VAC detect. Double isolation to low power side

Technical specifications, LUP200 User panel:

Display	2,4", 262k colors, graphical display 320x240 pixels
Cabinet dimensions	50mm (l) * 135mm (w) * 25mm (h)
Power supply	12 VDC – 24 VDC
CPU	AT91SAM7, ARM7 processor
RAM	16 MB
Flash	2 MB
Operating temperature	-20°C ~ + 60°C
Storage temperature	-30°C ~ + 70°C
RS485 port	1 port with 2 x connections
USB port	1 mini B connector (device mode only)
Display backlight lifetime	30,000 hours at 20°C and "normal" brightness
Light intensity sensor	1 onboard light intensity sensor
Number of foil buttons	6 buttons
Languages	English and German
Display heater	12 VDC, max 2,5W

Technical specifications, LOM320 Ethernet module:

Size	82mm (l) * 81mm (w) * 27mm (h)
Power supply	12 VDC
CPU	ARM920T, 32bit, 200MHz
RAM	64MB
Flash for data logging	16MB
Operating temperatures	-20°C ~ +60°C
Storage temperatures	-30°C ~ +60°C
Ethernet	1; 10/100 Mbit
RS485 ports	1 (option)
USB host	2 ports with A connector
USB device	1 port with mini B connector
GPRS/GSM	Modem Siemens MC55 incl. sim card reader (option)
Option connector	24 pins for connection to LMC300
Optimized for linux applications	2 x USB host, webserver, datalog via internet, software update via internet, mail (option), GSM/GPRS (option), 485 termination jumper (option)