



DAS HERZ DER FRISCHE

EXTENDED CONTROLLER

ELECTRONICS AND CONTROLS

FOR ADVANCED AIR HANDLING UNITS

CF-220-2 EN



LMC310i EXTENDED



AIR
HANDLING



SMART
CONNECT APP



BEST
SOFTWARE

LMC310i EXTENDED CONTROLLER FOR AIR HANDLING UNITS



LMC310i EXTENDED is a configurable, pre-programmed air handling controller with extended I/O's. It is specially designed for advanced air handling units, including rotary and crossflow heat exchangers, cooling and heating systems e.g. LMC310i EXTENDED ensures optimal indoor climate and optimizes your air handling unit to save time, cost and energy.

ENERGY EFFICIENT CONTROL

Optimized flow and pressure control,

demand control and advanced heat recovery functions ensuring energy efficiency. Integrated data logging function provides historical data for advanced energy analysis.

EXTENDED FUNCTIONALITIES

Advanced heating and cooling functions for water/electricity heaters and direct/water cooling. Fire damper control with testing functions securing operational reliability and safety.

» YOUR ADVANTAGES

- // Energy and cost saving through intelligent air flow and heat recovery control
- // Demand controlled air handling with CO₂-, humidity- and motion sensors
- // Alarm and event loggings for data analysis and troubleshooting
- // Intelligent ambient temperature control for optimal indoor climate

Technical specifications	
BITZER Electronics part no.	399000647
Size	185mm (l) * 110mm (w) * 61mm (h)
Power supply	110 - 230VAC 50-60 Hz +/-10%; typical 4 VA, max. 18 VA
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	11 (+1 Extended) for BITZER Electronics NTC sensors -40°C ~ +99°C; +/- 1°C accuracy
Analogue inputs	2, AI1 to AI2; 0-5V with 5 Volt supply for radiometric pressure transmitters; Rin: 25KOhm.
Digital inputs	7, not galvanically isolated; 0 – 3.3V with pull-up resistor
Analogue outputs	6, AO0 to AO5; 0-10V, +/- 3%, Rin > 10KOhm; max frequency 1Hz
Relay outputs	RE0 to RE11: 10A 24VDC / 10A 250VAC resistive, max 0.75A inductive load; double isolation to low power side; max. 250VAC isolation between relays.
RS485 ports	2 with common 12V 80mA output; 1 used for display and 1 for future use
USB ports	1 device mode only for software update and communication with a PC
Real time clock	With 1 year battery back up
Datalog	1 year capacity
12VDC output	Up to 500 mA
Ethernet connection	1, 10/100 Mbit; on Web versions

RELATED PRODUCTS

BITZER SMART CONNECT

Monitor and operate air handling units remotely with BITZER SMART CONNECT cloud and app solution. Available for Apple iOS, Android, Windows and MAC computers.



TOUCH DISPLAYS

User friendly user panels with touch display and Wi-Fi functionality, specially designed for air handling units by our experienced interaction designers.