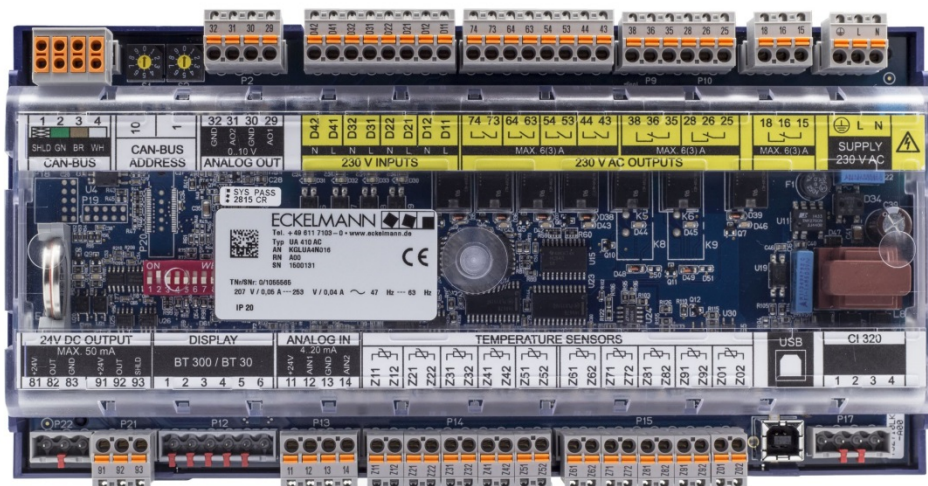


Eckelmann

E*LDS UA 410 D Case Controller

Controller for Discounter / thermostatic expansion valves (TEV)



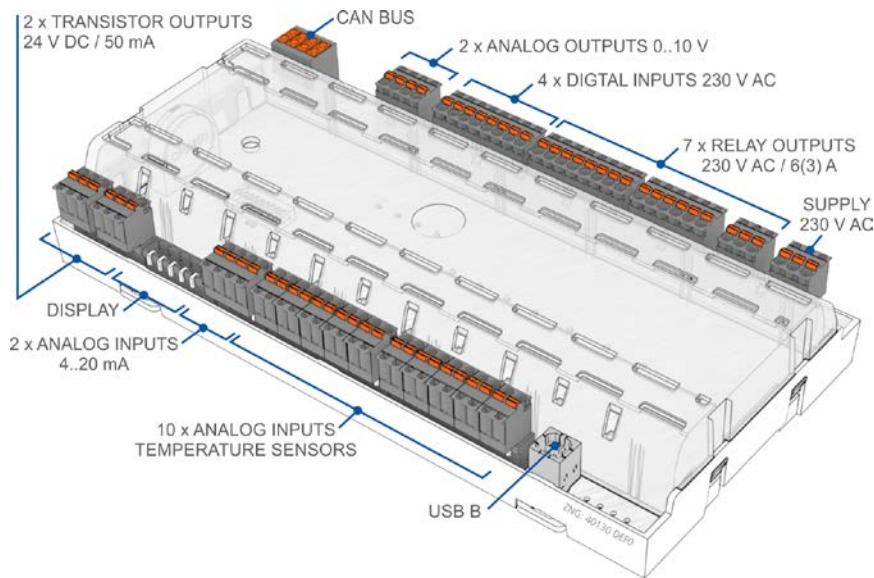
Special functions and features

- 3 controllers in one! Universal discount controller for normal-temperature display cases, service counters, walk-in chillers and freezers
- Controls up to 8 display case units in one temperature zone with 2-3 compressors
- Controls up to 8 display case units with 2-3 compressors by pressure switch
- Controls one walk-in chiller and freezer
- Connection up to 10 temperature sensors (L243 / K277 / 5K3A1)
- Low temperature protection for the first temperature zone
- For demand defrosting, electric defrost heater and off-cycle defrosting
- Integrated continuous running limiter
- Measurement data archiving: With store computer and in stand-alone operation
- Various operation and display capabilities on separate BT 300 x operator interface, system centre, service centre by means of Virtus Control Desk (browser-based service and integral part of the Virtus System Centre) or service notebook
- USB interface for firmware update and direct parameter setting via LDSWin
- Spring terminals for easy installation
- Upon request with full electronic accessories – control boxes

Order numbers

- KGLUA4D016
UA 410 D AC, CAN bus, real-time clock, stand-alone, internal archive, 2 analog in- and outputs

Connection diagram UA 410 D AC



Specifications

Electrical connection

- Operating Power: 230 V AC ($\pm 10\%$) / 50 - 60 Hz (± 3 Hz) / 11 VA (energy efficient power supply)

Interfaces

- Outputs
 - Relay: 4 N.O. / 3 changeover: 230 V AC / 6 A floating for cooling, defrosting, fan, alarm, etc.
 - Transistor: 2 x 24 V DC / max 50 mA, for alarm
 - Analog: 2 x 0..10 V DC
- Inputs
 - Digital: 4 x 230 V AC floating for setpoint toggle, coldroom door, compressor disconnection
 - Analog: 2 x 4..20 mA
 - 10 x temperature sensors (L243 / K277 / 5K3A1) for evaporator, air supply, return air and room air temperatures
- Field bus: CAN bus / floating
- USB: Firmware-update / direct parameter setting via LDSWin
- Other: Display: Connection to BT 300 family
- Archive memory: 1 year via system centre / store computer (if available) and 1 year in stand-alone operation
- Real-time clock: Power reserve, lithium cell
- Monitoring function: Watchdog

General data

- Dimensions: W 267 x H 128 x D 50 mm
- Temperature range
 - Transport: $-20\text{ }^{\circ}\text{C} \dots +80\text{ }^{\circ}\text{C}$
 - Operation: $0\text{ }^{\circ}\text{C} \dots +50\text{ }^{\circ}\text{C}$
- Relative humidity
 - Transport: 8 % .. 80 %
 - Operation: 20 % .. 80 %
- Protection / Mounting: IP20 / DIN rail mounting
- Standards: Complying with EU Directives
 - 2004/108/EEC (EMC-Directive)
 - 2006/95/EEC (Low Voltage Directive)
 - 2002/95/EEC (RoHS)