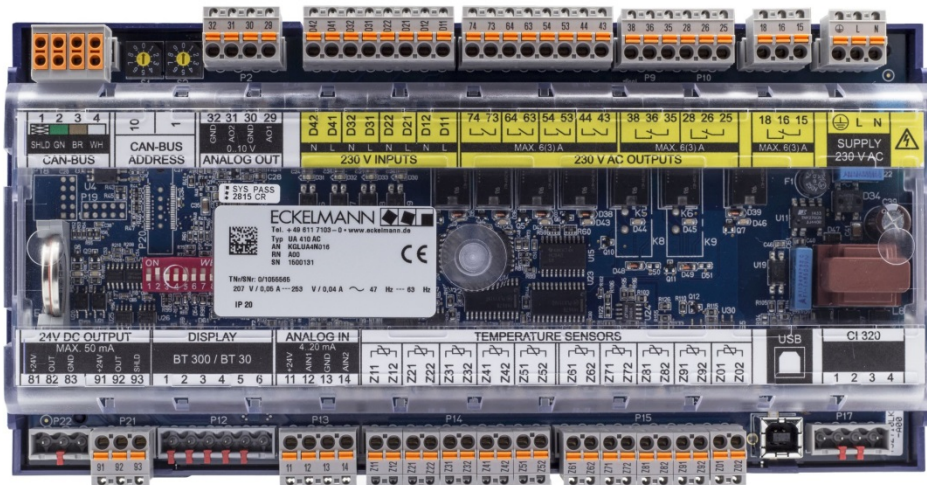


Eckelmann

E*LDS Temperature Data Logging Controller UA 410 L



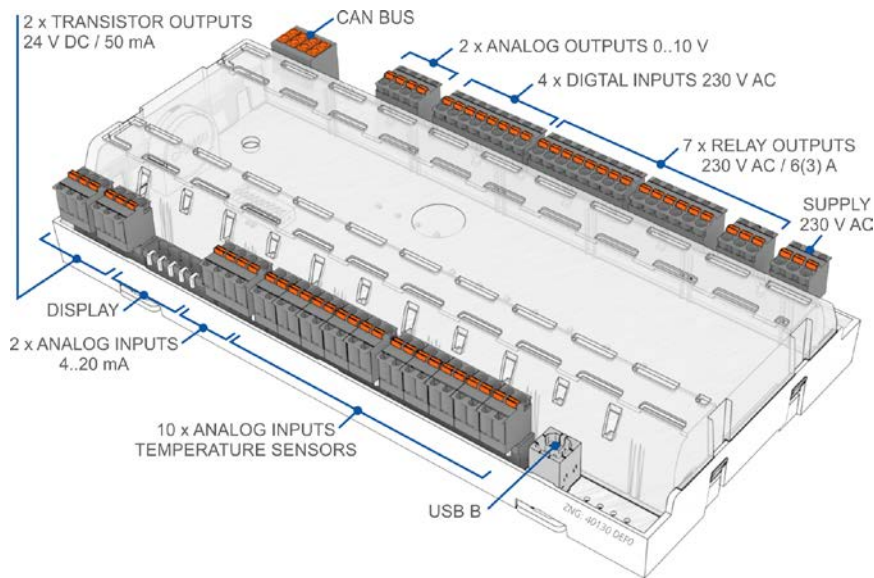
Special functions and features

- Universal temperature data logging controller for refrigerated display cases, cold rooms or miscellaneous measuring points
- Controls up to 5 refrigerated points with ON-OFF control for the first 5 sensors
- Connection up to 10 temperature sensors (L243 / K277 / 5K3A1) for monitoring up to 10 independent measuring points
- Alarm suppression for sensors 1-5 and 6-10 by using of digital inputs
- High and low temperature alarms divisible by priorities
- Integral alarm relay
- Spring terminals for easy installation
- Measurement data archiving:
 - System centre: 2 Temperatures, one year complies with EU 37/2005 Regulation
 - Stand-Alone: 10 Temperatures, 112 days complies with HACCP Regulation
- 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
- Humidity and pressure measurement via analog inputs 4..20 mA
- USB interface for firmware update and direct parameter setting via LDSWin
- Upon request with full electronic accessories – control boxes

Order numbers

- KGLUA4L016 UA 410 L AC, CAN bus, real-time clock, stand-alone, internal archive
2 analog in- and outputs

Connection diagram UA 410 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 and alarm
 - Transistor: 2 x 24 V DC / max 50 mA, for alarm, anti-condensation heater
 - Analog: 2 x 0..10 V DC for constant regulation
- Inputs
 - Digital: 4 x 230 V AC floating for enabling cooling and disabling of temperature alarms
 - Analog: 2 x 4..20 mA for measuring of humidity and pressure probes
 - 10 x temperature sensors (L243 / K277 / 5K3A1) for miscellaneous measuring points
- Field bus: CAN bus / floating
- USB: Firmware-update / direct parameter setting via LDSWin
- Other
- Archive memory: Display: Connection to BT 300 family
 - System centre: 2 Temperatures, one year, complies with EU 37/2005 Regulation
 - Stand-Alone: 10 Temperatures, 112 days, complies with HACCP Regulation
- 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)
 - DIN EN 12830 (Temperature logging devices)