Eckelmann

E*LDS System Centre Virtus 5 Series

Special functional and performance features

- Intuitive touch operation for central parametrisation, configuration and display of operating data, messages and alarms of all components in the E*LDS system

- Integrated web server for operation via laptop (compatible with Google Chrome, Mozilla Firefox)

- User language (German, English, French)

- Data archiving (operating values, states), EU archive, 24 hours list, energy consumption

- Remote monitoring and remote maintenance

- Individual alarm signalling, inclusion of external alarms and forwarding via e-mail, SMS and push service (Push-Over)

- Comprehensive wiring options

- Data interfaces (XML interface, Modbus RTU)

- Interfaces for E*LDS building automation

- Energy and power recording (M bus or pulse measuring points): Balancing of different meter circuits, differentiation of peak and low tariff

- Individually configurable energy management:
  - Multi-stage load shedding of external loads using external switching outputs
  - Cyclic recording of energy and power

- Can be extended with up to 4 SIOX extension modules each SIOX with 8 relay outputs and 12 digital inputs e.g. As universal week timers with external switching output

- Successor for CI 3x00 and CI 4x00

- Enhanced interfaces in comparison with
  - CI 3100: COM4, LAN/Ethernet, 2nd CAN bus, 2 USB ports
  - CI 4x00: 2nd LAN/Ethernet

- Function upgrade possible by input of a licence key

Order numbers

- KGLVSC5410   **VSC 5410**
  S0 / M bus meter, BCS, Modbus,
  LAN successor for CI 3x00/CI 4x00

- KGLVSC5510   **VSC 5510**
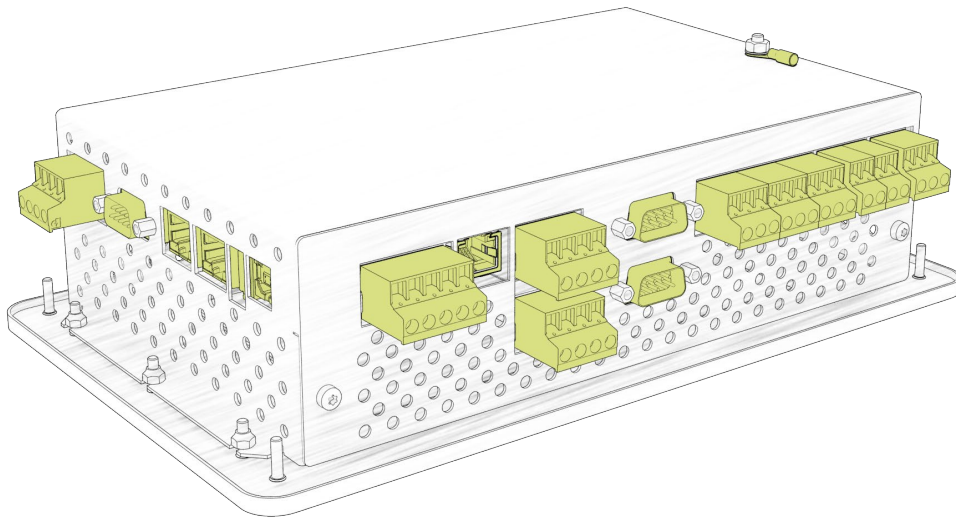 VSC 5410 + CAN bus repeater function

Connection diagram for Virtus 5 - complete design

Technical data

Electrical connection

▪ Supply voltage: 230 V AC, 200 - 265 V AC / 50 Hz / 36 W

Interfaces

▪ Outputs	Relay:	3 changeover contacts: 230 V AC / 6(3) A floating output* for signalling system; for each SIOX extension module additional, 4 changeover contacts and 4 normally open contacts 230 V AC / 6(3) A
▪ Inputs	Digital:	2 x 230 V AC floating output; for each SIOX extension module additional 12 x 230 V AC floating output
		All inputs are freely configurable as alarm energy meter (M bus or pulse measuring points)
▪ Field bus	CAN bus1:	Floating output: Data exchange with E*LDS components and integrated building automation
	CAN bus2:	Repeater function (VSC 5510)
▪ Data:		2 x serial RS232 for operation by PC on-site, remote maintenance via modem,
		download and special functions e.g. building control, other external systems, compact controller,
		connector for M bus Gateway for consumption data capture
		1 x RS485 (COM3 on Combicon) for connection of, e.g. compact controller UA 30 and Dixell
		1 x RS232 (COM4) for connection of Danfoss AHT and Wurm AHT external controllers
▪ Other:		2 x LAN/Ethernet (VSC 5410 or higher)
		2 x USB (Host / Slave) for direct access via LDSWin / firmware update via USB stick
		Power supply and data interface for up to 4 SIOX extension modules
▪ Real-time clock:		With power reserve (lithium cell, permanently installed)
▪ Alarm signalling:		Internal buzzer, 2 signal contacts (Prio1 / Prio2) and freely configurable multifunction relay

General data

▪ Dimensions:	W 260 x H 160 x D 75 mm
▪ Temperature range Transport / Operation:	-20 °C .. +80 °C / 0 °C .. +50 °C
▪ Relative humidity Transport / Operation:	8% .. 80% / 20% .. 80%
▪ Enclosure protection:	Front with rubber gasket: IP54 / panel mounting inside: IP20
▪ Standards and regulations:	EU Declaration of Conformity according to

- ▪ 2014/30/EU (EMC Directive)
- ▪ 2014/35/EU (Low Voltage Directive)
- ▪ 2011/65/EU (RoHS Directive)

* Outputs PRIO1 and PRIO2 withbistable relays and 5 minutes operate delay after shutdown.