

# Eckelmann

## VPC 5000 Pack Controller



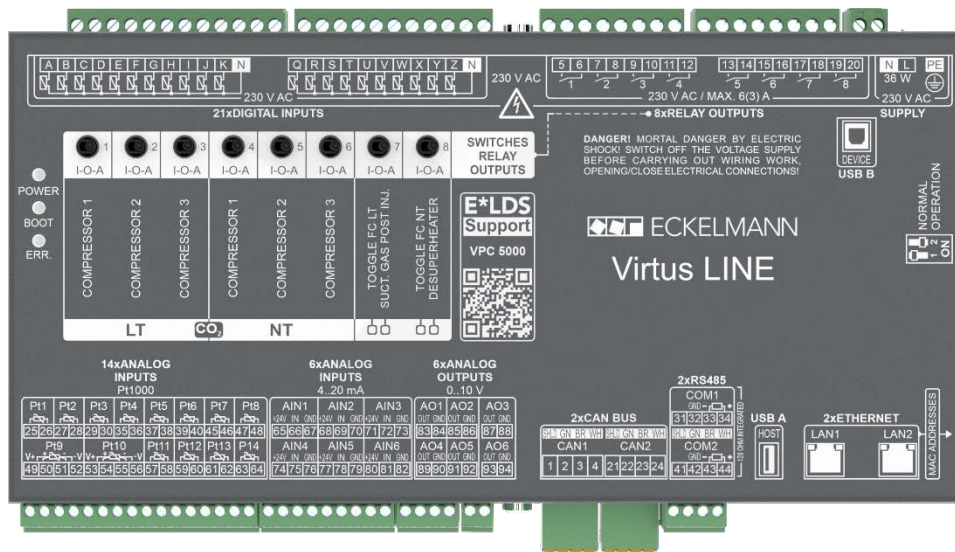
### Special functional and performance features

- For transcritical CO<sub>2</sub> installations
- Low pressure control and compressor control (Step/combination controller)
- Base module for 6 compressors (3 NT / 3 LT)
- Base load switching
- Medium/high pressure control
- Gascooler and fan control for up to 12 stages à 1x/2x/3x Modbus fans
- Manual control switch for individual control of each individual stage (emergency operation / start-up)
- Wide ranging monitoring functions
- Modern interfaces allow communication with the Virtus system centre and other components
- Compact, space-saving design
- Simple, fast firmware updates
- Connection via the internet to the web platform Virtus Caelum
- Wide range of options for operation and display on site / service centre by means of Virtus Control Desk (browser-based service and integral part of the Virtus System Centre) or service notebook

### Article number

KGLVPC5000      VPC 5000 Pack Controller

# Connection diagram VPC 5000



## Technical data

### Elektrical connection

- Supply voltage 230 V AC, 207 - 253 V AC, 50 Hz / 24 W

### Interfaces

- Outputs
  - Relays 8 x normally open contact, 230 V AC / 6 A floating output for compressors and enables
  - Analogue 6 x 0..10 V for compressor speed control, for control of the high and medium pressure valve (HPV/MPV) or for control of the gas cooler
- Inputs
  - Digital 21 x 230 V AC for recording the system operating status, 12 + 2 x inputs for Pt1000 for measuring e.g. the cylinder head, outside, room and gas cooler outlet temperatures
  - Analogue 6 x 4..20 mA\* for pressure transmitter, humidity sensor, reading back HPV opening degree
- Ethernet 2 x Ethernet for connectivity and for extension modules (10...100 Mbit)
- RS485 2 x Modbus for fan control and for extension modules
- Field bus 2 x CAN bus, floating output
- Data 2 x USB (Host/Device) e.g. for firmware update
- Data archiving Archiving of the operating data via system centre and Caelum web platform

### Genral Data

- Dimensions W 253 x H 150 x D 97 mm
- Temperature range
  - Transport -20 °C .. +80 °C
  - Operation 0 °C .. +50 °C
- Relative humidity
  - Transport 8 % .. 80 %
  - Operation 20 % .. 80 %
- Protection rating IP20
- Standards and regulations EU Declaration of Conformity according to
  - 2014/30/EU (EMC Directive)
  - 2014/35/EU (Low Voltage Directive)
  - 2011/65/EG (RoHS)