



*Let's talk!*

# -L-a-v-a-L-I-N-E © SERIES

## Controller-K10

- Up to 12 inverters connectable
- Mixed inverter output power detection
- Storage of up to 256 system events, i.e. alarms
- Alarm report auto-sent via optional modem
- Configurable via buttons or terminal program
- Monitoring of DC input and mains voltage
- 19"- plug-in case
- Battery buffered real time system clock



Picture may differ from actual device

## Specifications

### General

|                       |   |
|-----------------------|---|
| Electrical safety     | EN 60950, VDE 0805  |
| Galvanic isolation    | 3.75kV <sub>DC</sub>                                      |
| EMC (emission)        | EN 50081-1<br>Curve EN 55022B                             |
| EMC (immunity)        | EN 50082-2  |
| Operating temperature | -5 to +50°C non condensing<br>+50 to +70°C, 2%/K derating |

### Input

|          |   |
|----------|---|
| Input DC | 24, 48/60, 110, 220V <sub>DC</sub>                                      |
| Input AC | 230V <sub>AC</sub> / 50 Hz<br>(115V <sub>AC</sub> / 60 Hz upon request) |

### Signals

|               |  |
|---------------|--|
| Visual        | LCD dot matrix display 2 x 16                              |
| Terminal      | RS-232 DEE interface, standard terminal program accessible |
| Alarm contact | 2x voltage free  |

### Electrical connections

|                  |                                      |
|------------------|--------------------------------------|
| Connectors       | Front                                |
| DC-input         | 3 terminal blocks 4 mm <sup>2</sup>  |
| Signals          | Binder 6-pole connector DIN 45322    |
| Interface        | SubD 9-pole RS-232 DEE               |
| Interface Supply | 1x RJ11 (12V, 0,5A)                  |
| Databus inverter | 2x RJ45 S-UTP                        |
| Controller OUT   | Binder connectors 1x4-pole, 1x7-pole |

### Operation

MAIN SWITCH, push-buttons, terminal program

### Housing

|                |                            |
|----------------|----------------------------|
| Size           | 19"- plug-in case          |
| Weight         | 2 HE / 84 TE, 201 mm depth |
| Classification | approx. 2.88 kg            |
|                | IP 20                      |

### Warranty

24 months

Subject to change without notice.

### Options

1 slot for optional user interface, i.e. LAN, Interbus, LON, etc.

### Factory Defaults DC

Reset, UVP, First Start, Restart Low, Restart High, OVP

### Factory Defaults AC

|                   |                                 |
|-------------------|---------------------------------|
| Overload mains    | adjustable from 0 kVA to 50 kVA |
| Overload inverter | 125% for 12s; >125% for 3s.     |
| Overvoltage       | +10%, +15%, +20% or 25%         |
| Undervoltage      | -10%, -15%, -20% or -25%        |
| Frequency limits  | +/-3 Hz (bypass-version only)   |

### Function

Three RISC processors measure DC input voltage, mains and inverter voltage (momentary and effective) and mains frequency. DC input voltage, AC output voltage and output power of the entire system are displayed.

Several system variables are configurable by the user for optimal performance according to the environment the system is used in.

These system configurations are either to be altered non-volatile via 4 push-buttons and the menu display on the front panel, or through any standard terminal program (OS independent) via RS-232 interface.

The controller has a built-in, battery buffered real time system clock. It is used to store up to 256 system events, i.e. alarms, with date and time.

### Order Code

e.g. LAVCON - 48/60 - 230 - K10

| Type | P / VA | U <sub>IN</sub> / VDC | U <sub>IN</sub> / VAC | Options |
|------|--------|-----------------------|-----------------------|---------|
| LAV  | CON    | -                     | -                     |         |
|      |        | 24                    | 230                   |         |
|      |        | 48 / 60               | 115                   |         |
|      |        | 110                   |                       |         |
|      |        | 220                   |                       |         |

Separate values by hyphen (-), append options where applicable