



LTDVE4CH-20

Strobe controller 4 channels

Opto Engineering® LTDVE series of controllers can be configured via Ethernet or RS485.

With the Ethernet interface, you can configure the controller with either the Modbus/TCP slave protocol or the internal web browser. The second option allows for a very easy configuration of the controller using a common web browser to visually change the parameters and/or inspect the device status.

- Easily set the output current intensity of each connected illuminator in small steps (0.2mA, 4mA or 20mA depending on current range)
- Set the pulse duration and pulse delay of each illuminator in small steps as low as 1µs
- Control the connected illuminators with up to 8 synchronization inputs
- Control up to 8 synchronization outputs (e.g. up to 8 cameras)
- Write and save different configurations depending on your application

The LTDVE series can also be configured via the RS485 communication port interface that implements the Modbus/RTU slave protocol.

The configuration is stored in a non-volatile memory to maintain your settings even when the Ethernet or RS485 connection is removed.

KEY BENEFITS AND FEATURES

- Compatible with most of the LED lighting solutions available
- Ethernet, RS485 interface
- Up to 8 independently controlled output channels
- Max output current up 20A pulsed
- Easy configuration
- Small, compact units with DIN rail mounting



SPECIFICATIONS

Electrical specifications

| | | |
|--|---------|---|
| User interface | | Ethernet 100 Mbps (using a Web browser or Modbus/TCP slave or Modbus/UDP slave) |
| Configuration software | | - |
| Output channels | | 4 independent constant current output |
| Output current range 2 | (A) | Up to 20A pulsed or 2A continuous (in steps of 1mA from zero to 200mA, 4mA from 201mA to 4000mA and 20mA from 4001mA to 20A) |
| Max dissipable thermal power per channel | (W) | 4 |
| Synchronization inputs n° | | 4 opto-isolated digital input (1) |
| Synchronization outputs n° | | 4 opto-isolated digital output |
| Pulse delay | (µs) | 0 - 1.000.000 (2) |
| Pulse width | (µs) | 10 - 1.000.000 (2) |
| Timing repeatability for pulse delay | (µs) | 0.1 (4) |
| Timing repeatability for pulse width | (µs) | 0.1 (4) |
| Supply voltage | (V, DC) | 24 - 48 |
| Output voltage | (V) | 0 - 36 |
| Max startup/inrush current | (A) | - |

Mechanical specifications **6**

| | | |
|----------|------|----------------|
| Length | (mm) | 195 (6) |
| Width | (mm) | 135 (6) |
| Height | (mm) | 75 (6) |
| Mounting | | DIN rail |

Compatibility

| | |
|---------------------|--|
| Accessories | ADPT001 (7) |
| Compatible products | Compatible with most LED lightings available |

Environment

| | | |
|-----------------------|-------|------|
| Operating temperature | (deg) | 0-40 |
| Storage temperature | (deg) | 0-50 |



| | |
|--------------|--|
| Humidity | 20% to 85% relative humidity, non condensing |
| IP rating | 20 |
| Installation | Indoor use only |

NOTES

1. Operate from 3.3V to 24V
2. In variable resolution depending on selected value
3. In steps of 1 μ s.
4. Digital processing/li>
5. Regulated \pm 10%.
6. Including DIN fixing.
7. To be ordered separately. ADPT001 consists of - one RS485-USB adapter and - one cable for connection with LTDV6CH. In order to configure LTDV6CH via software a RS485 port must be provided.