

LTDVE8CH-20

Strobe controller 8 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		8 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°		8 opto-isolated digital input (1)
Synchronization outputs n°		8 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)	255 (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.