



## CDL3 - CLUB DASH LOGGER BACKLIT



The Club Dash Logger (CDL3) comes standard as a combined backlit display and powerful control device in one lightweight unit. With the addition of the Data Logging upgrade it becomes a fully programmable data logger with 8 MB memory.

It offers the same construction and advanced technology as the top of the line ADL3, with a package of features tailored to entry level motorsport requirements.

The screen layout is fully configurable to display a multitude of data channels, warning alarms, lap times, fuel calculations, minimum corner speeds, maximum straight speeds and more.

The CDL3 performs calculations, acquiring data from other devices such as an ECU.

### ► FEATURES

- All-in-one display, logger and controller (logging and I/O optional)
- Suitable for bikes, cars, marine and industrial applications
- Compact, durable and reliable unit
- Supports Wideband Lambda from MoTeC PLMs or LTCs
- Easily integrates with MoTeC CAN-based expanders, GPS, shift lights and ECUs
- Alarm acknowledge, mode, page and scroll line buttons
- 2 stage brightness control input
- SLM / SLM-C for shift and warning light

### ► COMPATIBILITY

#### MoTeC ECU Models

- M84, M400, M600, M800, M800, M1 Series (package dependant)
- Discontinued: M4, M48, M8

An additional cable/adaptor may be required in conjunction with the RS232 adaptor for some ECUs

#### MoTeC Accessories

- MDD, E888, SLM, SLM-C, PLM, LTC, BR2, PDMs, GPS, VCS

#### Other

- Many non-MoTeC devices

### ► KITS AND ACCESSORIES

#### Kits

- 18023 – CDL3 Track Display Kit
- 18024 – CDL3 Track Logging Kit

#### Kit Components

- 18122 – SLM-C Club Shift Light Module
- 62203 – Loom, CDL3 terminated
- 61221 – Loom, Two button
- 41304 – GPS L10, 10hz GPS

**Accessories**

- 61222 – Terminated Curly cord
- 61199 – CDL3 to RS232 ECU (an additional cable/adaptor may also be required for some ECUs)
- 61198 – CDL3 to MoTeC CAN ECU
- 61197 – CDL3 to OBD-II
- 61196 – CDL3 Input Loom

**► SPECIFICATIONS**

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**Display**

- 70 segment bar graph
- 13 digit alphanumeric text bar
- 48 user-defined, scrollable message lines with programmable overrides
- 3 programmable 'pages' for Practice, Warm-Up and Race
- Adjustable backlight

**Logging - optional**

- 8 MB logging memory
- Logging rates up to 500 samples per second
- Fast Ethernet download

**Inputs - optional**

- 4 x Analogue voltage high resolution inputs
- 2 x Analogue temperature inputs
- 2 x Digital inputs
- 3 x Speed inputs
- Compatible with E888 expander (8 thermocouples only)

**Outputs - optional**

- 4 x PWM, switched or digital outputs

**Internal Sensors**

- 3-axis accelerometer, detection range: +/- 5G
- Dash temperature sensor
- Sensor supply voltage
- Battery voltage

**Communications**

- 2 x configurable CAN or RS232 bus with individually programmable CAN bus speeds
- 1 dedicated RS232

**Physical**

- Dimensions 180 x 91 x 18 mm excluding connector
- Weight 385 g
- 1 x 34 pin AMP connector

**► SOFTWARE**

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Windows-based software designed for setup and management of the display and data logging system, that provides:

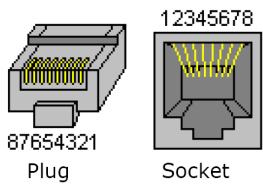
- Configuration of the inputs, outputs, LEDs, display, data logging and calculations
- Offline generation of a configuration file that can then be sent to the device.
- Channel monitoring
- Firmware updating and extensive help screens

▶ ETHERNET WIRING

Ethernet Connector		MoTeC Loom Colour	CDL3	
Pin	Function		Pin	Function
1	ethernet TX +	orange/white	11	ethernet RX +
2	ethernet TX -	orange	10	ethernet RX -
3	ethernet RX +	green/white	2	ethernet TX +
6	ethernet RX -	green	1	ethernet TX -

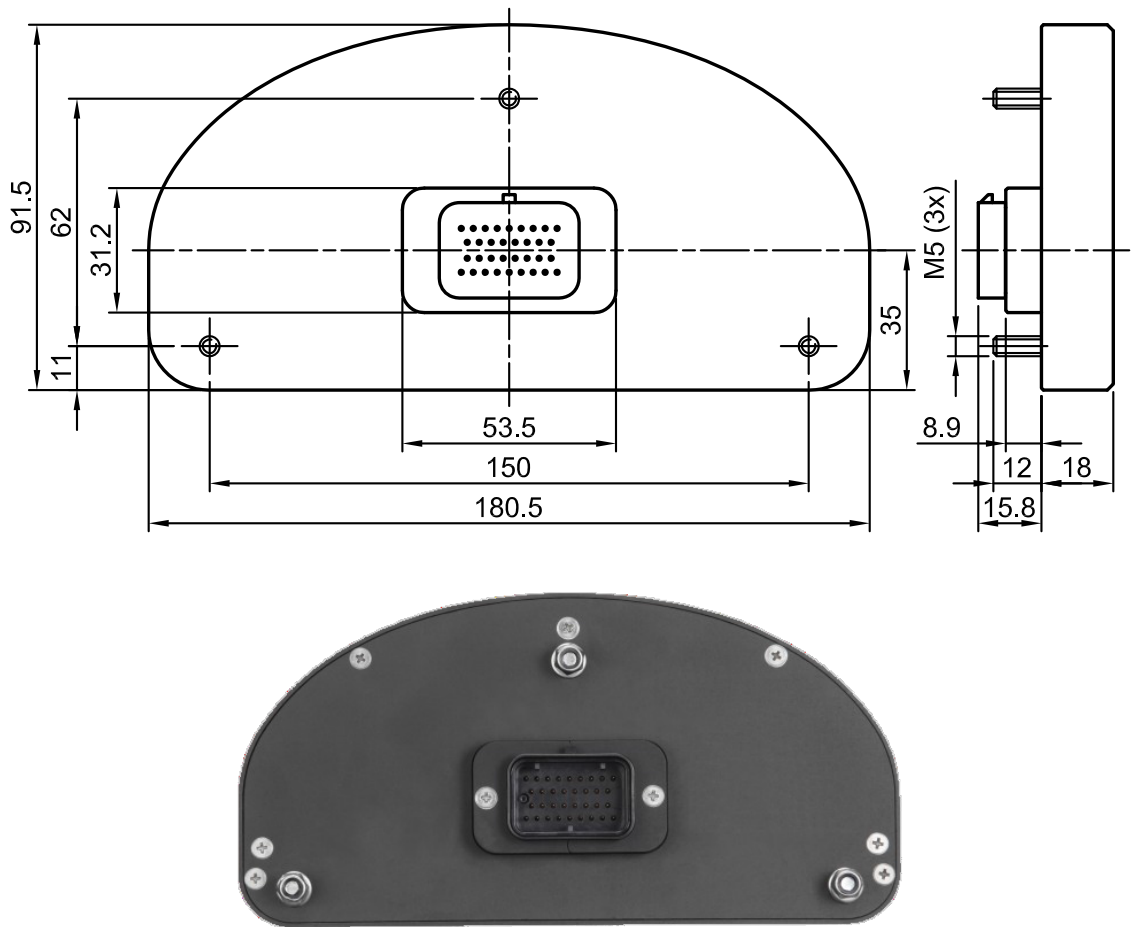
⇒ The wiring specified is the preferred cross-over configuration. However, the wiring can also be configured as straight-through. Cat 5 Ethernet cable must be used.

Pin Numbering



▶ DIMENSIONS AND MOUNTING

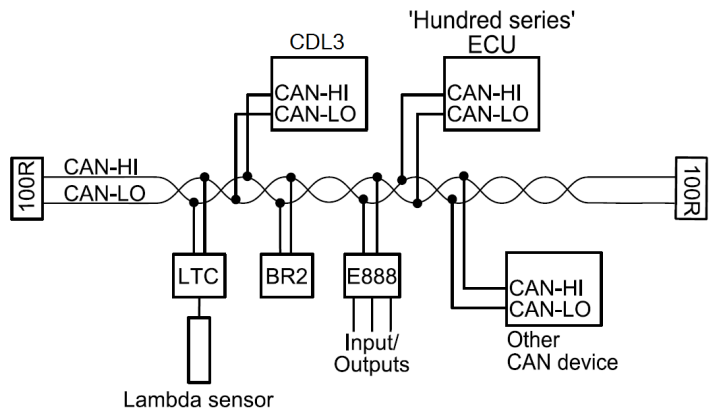
Dimensions are in mm. Ensure product is not stressed when mounted.



▶ ECU WIRING

When using an M4, M48 or M8 ECU, the should be connected via RS232. For some ECUs, a PCI cable may also be required.

The Display Logger should be connected via the CAN bus when using a 'hundred series' ECU (M400/M600/M800/M880) or M84, and any number of other CAN devices. See the following example.



Detailed wiring information is available in the user manual at [www.motec.com/downloads](http://www.motec.com/downloads).

## ▶ PINOUT

Pin	Name	Standard Function	Optional Function (12 I/O Upgrade #29500)
1	E-TX-	Ethernet Transmit -	
2	E-TX+	Ethernet Transmit +	
3	AV1		Analogue Voltage Input 1
4	AV2		Analogue Voltage Input 2
5	AV3		Analogue Voltage Input 3
6	AV4		Analogue Voltage Input 4
7	8V	Sensor 8 V	
8	5V	Sensor 5 V	
9	0V	Sensor 0 V	
10	E-RX-	Ethernet Receive -	
11	E-RX+	Ethernet Receive +	
12			
13			
14	DIG1	Alarm Ack*	Digital Input 1
15	DIG2	Next Line*	Digital Input 2
16	AT1		Analogue Temp Input 1
17	AT2		Analogue Temp Input 2
18	CAN0L / RS232 0 GND	CAN0 Lo / RS232 0 GND	
19	CAN0H / RS232 0 RX	CAN0 Hi / RS232 0 RX	
20	TX	RS232 Output	
21	SPD1		Speed Input 1
22	SPD2		Speed Input 2
23	SPD3	Brightness Switch	Speed Input 3
24			
25			
26	CAN1L / RS232 1 GND	CAN1 Lo / RS232 1 GND	
27	CAN1H / RS232 1 RX	CAN1 Hi / RS232 1 RX	
28	RX	RS232 Input	
29	AUX1		Auxiliary Output 1
30	AUX2		Auxiliary Output 2
31	AUX3		Auxiliary Output 3
32	AUX4		Auxiliary Output 4
33	BAT+	Battery Positive	
34	BAT-	Battery Negative	