



Representative Product Photo

CANLink® CL-442-131 Module Master I/O Module

9 Inputs and 4 Outputs including:

- (4) switch to ground inputs
- (4) 0-5.5VDC 10-bit analog inputs
- (1) frequency inputs
- (4) 2-wire constant current 2.5A PWM outputs configured as 2 complimentary pairs (only 1 of each pair can be activated at a time)
- (1) 5V Regulated Sensor Supply (250mA)
- (1) USB port
- (1) J1939 CAN port

The CL-442 is a solid-state microprocessor based module and member of the HED® CANLink® multiplexed control family. Delivered in a Deutsch enclosure, this unit provides a high density I/O count in a compact and economical package.

Designed for use as a stand alone unit or as part of a distributed system, the CL-442 is also available in a clear enclosure with LED indicators for each input for simple troubleshooting in the field.

The HED® CL-442 can be programmed using HED®'s do-it-yourself CANLink® Composer™ programming tool or directly by HED® engineering, and is designed for use with the CANLink® Conductor™ software tool for diagnostics and field troubleshooting.

Specifications

Enclosure:	Deutsch standard EEC-325x4 PCB enclosure with 24-pin receptacle.
Mating Connectors: Deutsch	DTM06-12SA DTM06-12SB WM-12S (wedge) – Two needed (one per connector) 0462-201-20141 20AWG sockets 0413-204-2005 Sealing Plugs – Unused pins are required to be sealed to maintain module sealing
Operating Voltage Range:	8-32 VDC
Operating Temperature:	-40°C to 70°C
Storage Temperature:	-40°C to 85°C
IP Rating:	IP67
PC Boards:	The printed circuit boards are designed for high EMI/RFI protection. The boards are conformal coated with a silicone coating for further water/moisture protection. All inputs and outputs are protected against shorts to Battery(+) or Battery(-). 100% of the boards are functionally tested before shipment. * Harness codes are switch to ground inputs used to identify I/O module location and function to the master controller

CL-442-131 Master I/O Module

CL-442-131 Master I/O Module Pinout

DTM13-12PA (Gray)		DTM13-12PB (Black)	
Pin	Function	Pin	Function
1	Input #1 STG	1	Output #1 * DOUT(+)/PWM(+)/CC(+)(2.5A)
2	Input #2 STG	2	Output #2 * DOUT(+)/PWM(+)/CC(+)(2.5A)
3	Input #3 STG	3	Output #3 * DOUT(+)/PWM(+)/CC(+)(2.5A)
4	Input #4 STG	4	Output #4 * DOUT(+)/PWM(+)/CC(+)(2.5A)
5	Input #5 FREQ	5	Return(-) Outputs 1-2
6	Input #6 AIN(0-5.5V)	6	Return(-) Outputs 3-4
7	Input #7 AIN(0-5.5V)	7	Input #9 AIN(0-5.5V)
8	Input #8 AIN(0-5.5V)	8	5V Sensor Supply (250mA) Input #11 5V Supply Voltage
9	CAN1-L	9	Sensor Supply Ground Input #10 Ground Voltage
10	CAN1-H	10	USB(DP)
11	BAT(-) Module and Returns	11	USB(DM)
12	BAT(+) Module and Outputs 1-4 Input #12 Battery Voltage	12	USB(GND)

Note: Above pinout is for HED® part number CL-442-131.
Additional part number data sheets available on HED® website.

* Note: When configured in CC mode, these 4 outputs are configured as 2 complimentary pairs. Thus, only 1 of each pair can be activated at a time. Pairs are 1&2 and 3&4.

