Hydro Electronic Devices, Inc.

Representative Product Photo

CANLink® CL-442-144-XX I/O Module

CL-442-144-10 : Master I/O

CL-442-144-20 : Client I/O – Not yet available

Up to 16 Inputs and 4 Outputs (16 total I/O pins):

- (5) Switch to Battery digital inputs
- (1) Switch to Ground digital input
- (6) 0-5.5VDC 10-bit analog inputs
- (1) 5VDC Sensor Supply
- (4) pins software configurable as PWM outputs with estimated current feedback (up to 3A), or switch to battery or switch to ground input
- (2) 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
	0462-005-20141 16-18AWG 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.

Toll-free technical support: (800) 854-3533

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CL-442-144-XX I/O Module

DTM13-12PA (Gray)		DTM13-12PB (Black)	
Pin	Function	Pin	Function
1	CAN2-L	1	Input #16 STB/STG/ Output #1 DOUT/PWM/ECC(+)(3A)
2	CAN2-H	2	Input #17 STB/STG/ Output #2 DOUT/PWM/ECC(+)(3A)
3	Input #1 STB	3	Input #18 STB/STG/ Output #3 DOUT/PWM/ECC(+)(3A)
4	Input #2 STB	4	Input #19 STB/STG/ Output #4 DOUT/PWM/ECC(+)(3A)
5	Input #3 VTD(0-5.5V)	5	5V Sensor Supply (250mA) Input #13 5V Supply Voltage
6	Input #4 VTD(0-5.5V)	6	Sensor Supply Ground Input #14 Ground Voltage
7	Input #5 VTD(0-5.5V)	7	Input #7 VTD(0-5.5V)
8	Input #6 VTD(0-5.5V)	8	Input #8 VTD(0-5.5V)
9	CAN1-L	9	Input #9 STB
10	CAN1-H	10	Input #10 STB
11	BAT(-) Module	11	Input #11 STB
12	BAT(+) Module and Outputs 1-4 Input #15 Battery Voltage	12	Input #12 STG

Note: Above pinout is for HED® part number CL-442-144.
Additional part number data sheets available on HED® website.

Top View

Gray Connector   Black Connector

Front View