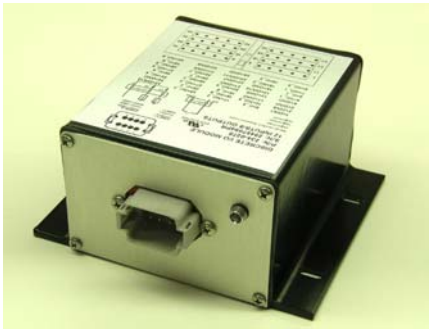
PRESS RELEASE

November 29, 2007 – Mississauga, Ontario, Canada

Discrete I/O Module *with* Electronic Assistant™
P/N: DIO128



The Discrete I/O Module reads 12 discrete inputs and sets 8 Form C relay outputs while providing a simple interface between a SAE J1939 CAN network and other electronic devices on a machine. The unit is an automotive battery powered device with the ability to withstand engine cranking, reverse polarity and transient power conditions. In engine applications, information is provided to the engine control system using single-frame J1939 application-specific PDU2 type messages. Outputs can be controlled by any input or CAN messages. The DIO128 can operate in one of four different modes: Normal Mode (CAN); Discrete Mode; Fault Mode; or Disabled Mode. A bi-color LED indicates operational status.

The DIO128 has a number of setpoints that allow the user to configure it for their application. The *Windows*-based Electronic Assistant™ can be used to configure the module using the CAN line. Alternatively, a RS-232 interface allows for quick user configuration adjustments using Windows HyperTerminal or other similar terminal software. Settings are saved to non-volatile memory upon command. The setpoints can also be saved to a file and flashed into other DIO128 modules over the CAN bus.

Ruggedly packaged with watertight Deutsch IPD connectors, the I/O module is suitable for use in harsh environments. Units are UL and cUL recognized to UL508 and C22.2 No. 142-M1987.

Applications: Power Generator Sets, Diesel Engine Control Systems

Setpoint File Viewer

File View Program

Setpoint Group Name: Logic

Setpoint Name	Setpoint Value	Comment
J1939 Data Representation	0	Compact, Data will be Txd/Rxd with 4 Channels/Byte
Digital Input PGN	0XFFA0	-
Digital Output PGN	0XFFA8	-
Mode Select/Status PGN	0XFFB0	-
Mode Select Response	2	Mode Status Message
Mode Select Data Index	0	-
Mode Status Data Index	1	-
Input Status Send Rate	250	ms
Output Status Send Rate	0	Sent On Request Only
Mode Status Send Rate	500	ms
Relay Control Message Receive Rate	250	ms
Mode Select Message Receive Rate	0	ms
Startup Operation Mode	1	Discrete, Outputs are controlled by on-board discrete inputs
Mode Override Input	12	Input 12
Override Mode	1	Discrete, Outputs are controlled by on-board discrete inputs
Transition Mode when CAN Fault Detected	2	Fault, Outputs are driven to their fault mode states
Default Mode when CAN Fault Detected	1	Discrete, Outputs are controlled by on-board discrete inputs
Transition Time when CAN Fault Detected	2250	ms

Figure 1.0 Configuration screen from the Electronic Assistant

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