# **NEW Engine Monitor**





# CANbus Monitor D-100 Series

New high resolution CANbus monitor to simply display your engine parameters.



# DYNALCO

## **CANbus Monitor**

## **D-100 Series**

### **Features**

- High resolution 320 x 240 color LCD, clear high contrast screen
- 7 analog, 2 digital, and 1 signal inputs
- 4 relay outputs
- Full sunlight readable with maximum brightness of 750 NIT (cd/m2)
- User configurable single and quadruple screens
- 5 soft keys provide easy, full local configuration
- Select digital values, analog gauges, or both to meet your preference
- Displays TIER 4 engine information
- Alarms provide immediate visual and audible indications
- Password protected to avoid unauthorized changes
- IP66 enclosure rating

### **Applications**

- CANbus Enabled Engines
- CANbus Enabled Power Generators



D-100 CANbus monitor offers J1939 compatibility for displaying engine performance parameters as well as providing over/under speed threshold protection. The D-100 can also monitor and display various types of inputs to help measure parameters such as temperature, pressure, and RPM. Plus it can send output signals to trigger controls via 4 independent relays.

#### **General Specifications\***

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Enclosure Material:	ABS	Display:	3.5" Color TFT LCD, QVGA resolution 320 x 240 pixels
Enclosure Rating:	IP 66 front IP 67 back	Viewing Angle:	Wide horizontal and vertical viewing
Electrical Connection:	Two 12-pin Deutsch DT04-12P receptacles	Brightness:	750 NIT Full sunlight readable
Power Supply:	10 – 30 VDC	Temperature Range:	
Communications:	RS232, 2 CANbus 2.0B, USB2.0	Operating:	-40 to +158 °F (-40 to +70 °C)
Inputs: (7) Analog Inputs	Each input can be selected as: 0 to 2.5 VDC	Storage:	-40 to +176 °F (-40 to +80 °C)
(2) Digital Inputs	0 to 10 VDC 0 to 1K ohms	Displayed Data If received from the engine and	Electrical, Fuel, Pressure, Temperature, Speed, Percentage, Time.
(2) Digital Inputs	Switch contact to ground or open collector type sensor. Max frequency 50 Hz.	transmission*	*Refer to Operations Manual for more details.
(1) Signal Input (Magnetic Pickup)	0 to 5000 Hz	Dimensions:	3.3" diameter cutout 3.75" x 3.75" bezel [panel]
Outputs:	4 relay outputs rated 0.5 A		

# **Barksdale**<sup>®</sup>

# Engine & Emission Controls

## **CANbus Monitor**

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### **Technical Drawing**



### **Pin Assignment**

	CONNECTOR A			CONNECTOR B		
1	GND	GROUND	1	Al-1	ANALOG INPUT 1	
2	PWR	10 – 30 VDC	2	AI-2	ANALOG INPUT 2	
3	RO-1	RELAY/SOLENOID OUTPUT 1	3	AI-3	ANALOG INPUT 3	
4	RO-2	RELAY/SOLENOID OUTPUT 2	4	AI-4	ANALOG INPUT 4	
5	CAN2 (-)	ISOLATED CAN SUPPLY (-)	5	AI-5	ANALOG INPUT 5	
6	CAN2 (+)	ISOLATED CAN SUPPLY (+)	6	AI-6	ANALOG INPUT 6	
7	CAN2H	ISOLATED CAN DATA H	7	AI-7	ANALOG INPUT 7	
8	CAN2L	ISOLATED CAN DATA L	8	DI-1	DIGITAL INPUT 1	
9	RO-3	RELAY/SOLENOID OUTPUT 3	9	DI-2	DIGITAL INPUT 2	
10	RO-4	RELAY/SOLENOID OUTPUT 4	10	SIG	SIGNAL INPUT	
11	CAN1L	PRIMARY CAN DATA L	11	RS232RX	RS232 RECEIVE	
12	CAN1H	PRIMARY CAN DATA H	12	RS232TX	RS232 TRANSMIT	

### **Order Number<sup>1</sup>**

Part Number	Description
D-100	CANbus monitor with (4) M4 nylon studs, (4) thumbnuts
D-100-B	D-100 with mounting bracket
D-100-C	D-100 with cable harness assembly
D-100-B-C	D-100 with mounting bracket and cable harness assembly

#### Accessories<sup>1, 2</sup>

Part Number	Description	
270A-105560	Cable harness – 3 ft. length with (2) Deutsch connectors. (Also included in D-100-C & D-100-B-C)	
240D-13177	Mounting bracket. (Also included in D-100-B & D-100-B-C)	
D-100-KIT	Hardware kit: (4) M4 nylon studs, (4) thumbnuts. (Also included in D-100).	

Notes

- 1: Refer to Sales Drawing and Installation and Operation Manual for more details
- 2: Accessories are included in some part numbers, and may be purchased separately.

## **Barksdale**<sup>®</sup>

## **DYNALCO**<sup>®</sup> Now part of Barksdale's family of products.

Founded in 1968, Dynalco instruments & control products for rotating equipment in demanding applications have a history of performance and reliability.

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