

Technical data



3.5 INCH
DISPLAY



750 NIT
DISPLAY



130° / 110°
VIEWING
ANGLE



GPS INPUT



IP 67



OPERATING
TEMP



NMEA 2000
COMPATIBLE



4 X RELAY
OUTPUTS



1 X USB
PORT



2 X CAN



3 X DIGITAL
INPUTS



7 X ANALOG
INPUTS

EGM

ENGINE GATEWAY MONITOR

**PLUG AND PLAY ENGINE MONITOR
DESIGNED TO BE USED WITH ALL ENGINE
TYPES. CONVERTING, DISPLAYING AND
RETRANSMITTING NMEA 2000 ENGINE DATA.**

The analog to NMEA 2000 “gateway” replaces the need for expensive dedicated converter modules, giving a full color, interactive engine monitor screen that can be used in place of, or alongside traditional gauges.

It provides selectable icon based layouts; including a comprehensive multi-language text based fault warning and acknowledgement system and a series of “hidden until lit” alarm lamps.

Primary display options include parameters related to Engine Status, and Alarms as well as Fuel Level, Rudder Angle, Trim, Depth, Speed and Heading. Heading and Speed can also be displayed as available from the NMEA 2000 network.

NMEA 0183 GPS data can be converted, displayed and re-transmitted from the NMEA 2000. Data is available in several formats and measurement units.

Reliability

Our products continue to be successfully deployed in an enormously diverse range of applications where total reliability is vital.

All products, custom or standard, are backed up by a dedicated central team of specialist engineers able to rapidly adapt any product for a specific application and to provide an unrivalled level of customer support.

Displays are also supported with a Manufacturer warranty against mechanical failure or material defects.

“DAY” MODE



Software

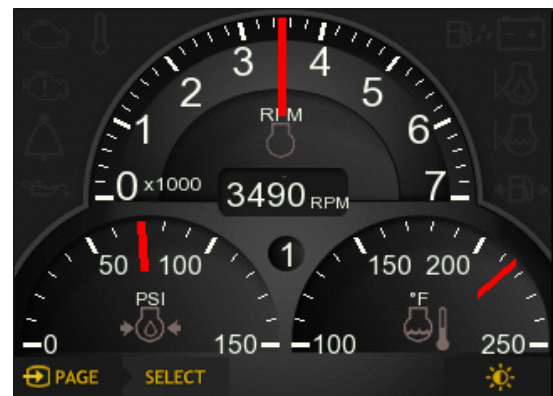
The EGM software includes typical functions used in the Marine sector, offering user friendly selectable icon based display layouts (gauge or numeric) and includes a comprehensive multi language text based fault warning and acknowledgement system.

Configuration options written in the software give the ability to connect to mechanical engines as well as engines with ECU.

KEY FEATURES

- / Compatible with virtually any Engine Type or Sender
- / NMEA 2000 Gateway feature that allows multifunction instruments to be connected that can receive and display engine data
- / Full J1939 DM1 message center & parameters
- / Supports NMEA 0183 for GPS speed

“NIGHT” MODE



Accessories

- > Cable Harnesses
- > Front Mounting Kits
- > Protective Sun Covers
- > Branding - Labels & Boxes
- > GPS Sensor
- > Development Harness

Specifications

Hardware

CPU	Freescale iMX 286 (454 MHz ARM926EJ-S)
FLASH Memory	128 MB NAND
SDRAM	128 MB

Electrical

Display	a-Si TFT LCD 3.5"
Resolution	320 (H) x 240 (V) QVGA
Active Area	70.08mm (H) x 52.56mm (V)
Viewing Angle	130/110 degrees from 6 O'clock
Number Of Colours	64K
Contrast Ratio	300:1
Brightness	750 NIT (cd/m2)
Power Requirements	10V to 32V DC
Sounder	Internal Buzzer
Connection - Primary	(1) 12 Pin Deutsch DT06-12SA Moulded in Receptacle
Connection - Secondary	(1) 12 Pin Deutsch DT06-12SB Moulded in Receptacle
Communications	1 X RS232, 1 X CAN Bus 2.0B (1 isolated), USB2.0 Standard*

*Custom options available

Environmental

Operating temperature	-40°C to +70°C
Storage Temperature	-40°C to +80°C
Degree of Protection	IP67 Rear, IP66 Front

Mechanical

Case material	ABS
Case color	Black
Dimensions	95mm (W) x 95mm (H) Front x 23mm rear (D) and 23mm forward

Input/Output

7 Analog Inputs	0-2.5 VDC, 0-10 VDC or 0-1000 OHMS
2 Switch Inputs	Switch Contact to ground or open collector type sensor - max. frequency = 50 Hz
RPM Input	Magnetic pick up or all effect & similar with push-pull output - max. frequency = 5 KHz
4 Relay/Solenoid Outputs	Open collector suitable 0.5A continuous load

Part Number

69872	C3 3.5" CAN Display with Engine Gateway Monitor Software Preloaded
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Connectors

Primary

1	Ground
2	Power*
3	Relay/Solenoid Output 1 (External alarm)
4	Relay/Solenoid Output 2 (Optional gauge light switch)
5	Isolated CAN Supply (-) (NMEA 2000)
6	Isolated CAN Supply (+) (NMEA 2000)
7	Isolated CAN Data H (NMEA 2000)
8	Isolated CAN Data L (NMEA 2000)
9	Not used
10	Not used
11	Primary CAN Data L (J1939)
12	Primary CAN Data H (J1939)

Mates with DT06-12SA

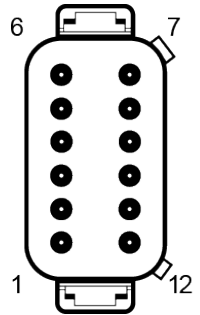
*Note 1. (10-32V DC) Supply should be protected by 500 mA – Rated circuit breaker/fuse.

Secondary

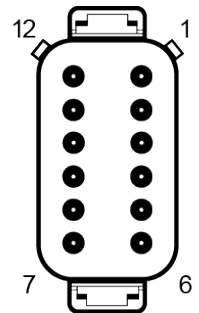
1	Sensor 1 Analog Input - Connect to oil pressure
2	Sensor 2 Analog Input - Connect to coolant level
3	Sensor 3 Analog Input - Connect to boost pressure
4	Sensor 4 Analog Input - Connect to tilt and trim
5	Not used
6	Sensor 6 Analog Input - Connect to rudder angle
7	Sensor 7 Analog Input - Connect to fuel level
8	Digital Input/Flow Sensor 1
9	Digital Input/Flow Sensor 2
10	Tachometer Input
11	RS232 Receiver - Connect to GPS NMEA Tx input
12	Not used

Mates with DT06-12SB

Primary



Secondary



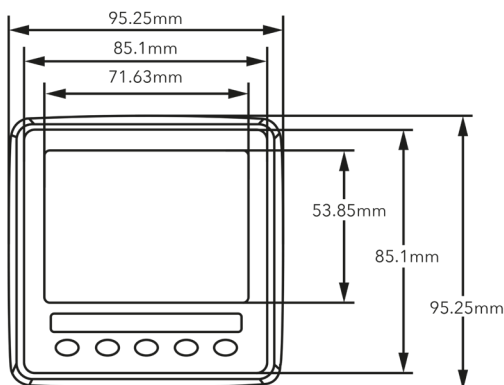
IMPORTANT NOTICE

Safety Warning: Please note analog input voltages should not exceed the supply voltage or damage may occur. No power should be present on the harness during connection. USB port should not be used for charging external equipment such as mobile phones.

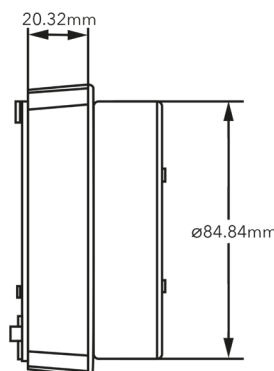
Connect Harness 1 (Primary) noting correct orientation of connector. Ensure it is fully mated so the connector latches into place. Then connect Harness 2 (Secondary) noting correct orientation of connector. Ensure it is fully mated to the connector latches into place.

Dimensions

FRONT VIEW



SIDE VIEW



REAR VIEW

