

UEM

UNIVERSAL FNGINF MONITORS

PLUG AND PLAY ENGINE MONITORS DESIGNED TO BE USED WITH ALL ENGINE TYPES. INCLUDING ANALOGUE, J1939 & NMEA 2000 ENGINES.

The range incorporates a variety of types and screen sizes from a round 3" display to a slimline 7" display. Each model of display has varying levels of the number and type of inputs.

The software is common across the range supporting inputs from Analogue, J1939 and NMEA 2000 engines that can be configured via the setup menu.

The UEM software provides selectable icon based display layouts; including a comprehensive 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. Data is available in several formats and measurement units.

The UEM includes a "gateway" feature that converts inputs (including Analogue signals, J1939 and NMEA0183 for GPS) to NMEA 2000 allowing engine data to be broadcast for display on other onboard multi-function displays.

Key Features:

- Compatible with Multiple Engine Types / Brands
- > All Common Engine Parameters Shown
- All Triggered Alarms Shown
- NMEA 2000 Gateway For Transmission to Other MFDs
- Compatible with Multiple Engine Types / Brands
- > IP67 All-Round Protection
- > Plug and Play Installation
- Button Operated and Touch Screen Models Available

Kit Includes:

- Display Preloaded with UEM Software
- Protective Cover
- Harness Cabling Selectable Options Either: Universal Including (J1939, NMEA2000 and Analogue) or J1939 only





UNIVERSAL ENGINE MONITOR

Range Comparison

	R3	R3s	C3	C3I	T5	T7i
Display range	158.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	158 ss. 3000 sss. 158 ss. 348 ss.	250 bs	**************************************	
Screen Size	3" LCD	2.8" LCD	3.5" LCD	3.5" LCD	5" LCD	7" LCD
Туре	PCAP Touch	Button	Button	Button	PCAP Touch	PCAP Touch
Brightness	850 NIT	750 NIT	750 NIT	750 NIT	1000 NIT	800 NIT
Data Types / Sources						
J1939	✓	✓	✓	✓	✓	✓
NMEA2000	✓	✓	✓	✓	✓	✓
Analogue Inputs	6 +TACH	-	7 + TACH	7 + TACH	1	1
Gateway to NMEA2000	✓	✓	✓	✓	✓	✓
GPS Input	NMEA 0183	-	NMEA 0183	NMEA 0183	NMEA 0183	NMEA 0183
External Alarm	✓	✓	✓	✓	✓	✓
Diagnostics						
J1939 DM1	✓	✓	✓	✓	✓	✓
J1939 DM2	✓	✓	✓	✓	✓	✓
CAN Logger	✓	✓	✓	✓	✓	✓
CAN Viewer	✓	✓	✓	✓	✓	✓
Display / Electrical						
Power Requirements	10-32V	10-32V	10-32V	10-32V	8-32V	8-32V
Connection						
Deutsch Ports	2 x 12 pin	1 x 12 pin	2 x 12 pin	2 x 12 pin	-	-
M12 Ports	-	-	-	-	5	5
USB Ports	1 x Type A	1 x Type A	1 x Type A	1 x Type A	1 x Type A	1 x Type A
Communications						
CAN Bus Ports	1	2	2	2	2	2
Environmental / Mechai			-		_	
Operating Temp	-30 to +77°C	-20 to +70°C	-40 to +70°C	-40 to +70°C	-20 to +70°C	-30 to +60°C
Degree of Protection	IP67	IP67	IP67	IP67	IP67	IP67
Dimensions (mm)	105.9 Round	84.8 x 44	95.2 x 95.2	117 x 117	133 x 94	181 x 124
Kit Part Numbers						
Universal* (J1939, NMEA2000 and Analogue)	9402	9406***	9408	9410	9412	9414
J1939 Only**	9401	9403	9407	9409	9411	9413

^{*}Required to support gateway function



^{**}No gateway
***Analogue not available on the R3s



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Software

The UEM software includes typical functions used in the Marine sector, offering user friendly selectable icon based display layouts (gauge, numeric, graph or bar) 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 an ECU.

KEY FEATURES

- Compatible with virtually any Engine Type or Sender
- Gateway feature converts incoming data to NMEA 2000 for output to other multi-function displays
- Full J1939 DM1 message centre and parameters
- Supports NMEA 0183 GPS input*

^{*}Excluding R3s

Displayed Data If Received From The E	Faults (Suspect Parameter Number) Available With Relevant Message Such As Too High/Low		
Electrical Alternator Current Alternator Potential Battery Potential Switched Electrical Potential Net Battery Current	Miscellaneous CANtx Disable Current Gear Selected Gear Torque Converter Lock-Up Engaged	 5 Volt DC Supply Accelerator Pedal Position Air Inlet Pressure Auxiliary Temperature #1 Barometric Pressure Battery Voltage - Actual Battery Voltage - Switched Boost Pressure Coolant Level Crankcase Pressure ECU 8V DC Supply Engine Coolant Engine Coolant Pressure Engine Fuel Metering Engine Oil Filter Differential Pressure Engine Oil Filter Differential Pressure Engine Oil Temperature Engine Oil Temperature Engine Speed Engine Speed Sensor Exhaust Temperature Fuel Level Fuel Pressure Fuel Rate Fuel Temperature Intake Manifold Temperature Navigation Based Vehicle Speed Temperature Timing Sensor Total Engine Hours Total Engine Hours Total Fuel Used Transmission Oil Pressure Transmission Oil Temperature Water In Fuel 	
Fuel Fuel Leakage 1 & 2 Fuel Rate Fuel Remaining Instantaneous Fuel Economy Total Fuel Used Trip Fuel Economy Trip Fuel Rate	Percentage Acceleration Position Actual Engine % Torque Coolant Level Drivers Demand % Torque Engine Oil Level Estimated % Fan Speed Fuel Level Throttle Position Torque Use at RPM		
Pressure Air Filter 1 Differential Pressure Air Inlet Pressure & Air Start Pressure Auxiliary Pressure 1 Barometric Pressure Boost Pressure Engine Oil Pressure Fuel Delivery Pressure Injection Control Pressure Injector Metering Rail 1 Pressure Coolant Pressure Pressure Injector Metering Rail 2 Transmission Oil Pressure Clutch Pressure	 Speed Engine Desired Operating Speed Engine Speed Input Shaft Speed Turbo 1 Speed Time Total Engine Hours Trip Engine Hours Service Hours Speed Over Ground (compatible GPS sensor required) 		
Temperature			
Air Inlet Temperature Auxiliary Temperature 1 Engine Coolant Temperature	 Engine Oil Temperature Exhaust Gas Port 1 & 2 Temp Exhaust Gas Temp 	Intake Manifold 1 TempTransmission Oil TempTurbo 1 Compressor Inlet Temp	



Engine ECU Temperature

Fuel Temp

Turbo Oil Temp



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Example Screens

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

Displays are also supported with a return to base extended 24-month Manufacturer warranty against mechanical failure or material defects.

R3 3" round touch display



C3 3.5" colour display



C3I 3.5" low profile colour display



T5 5" touch display



T7i 7" touch display

