

UEM UNIVERSAL ENGINE MONITORS



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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 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.

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. Not available on R3.

Key Features:

- > All Common Engine Parameters Shown
- > All Triggered Alarms Shown
- > 8 Languages Supported
- Single or Twin Engine Display Modes
- > 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
- > Kit Options for J1939, NMEA2000 & I/O Available



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UEM **UNIVERSAL ENGINE MONITOR**

Range Comparison

	R3	R3s	C3	C3I	T5	T7i
Display range	158.8 • min		558 € 348 ↔ 158 € 3000 ↔ 158 € 348 ↔	Contraction of the second seco		
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	\checkmark	✓	\checkmark	 ✓ 	 ✓ 	 ✓
NMEA2000	✓	✓	✓	✓	✓	✓
Analogue Inputs	6 +TACH	-	7 + TACH	7 + TACH	1	1
Gateway	√*	\checkmark	\checkmark	✓	✓	✓
GPS Input	NMEA 0183	-	NMEA 0183	NMEA 0183	NMEA 0183	NMEA 0183
External Alarm	\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark
Diagnostics	l	1		1	l	
J1939 DM1	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
J1939 DM2	\checkmark	✓	✓	✓	\checkmark	\checkmark
CAN Logger	\checkmark	✓	\checkmark	✓	\checkmark	✓
CAN Viewer	\checkmark	✓	\checkmark	✓	\checkmark	\checkmark
Display / Electrical					'	
Engines Supported	Up to 2*	Up to 2*	Up to 2*	Up to 2*	Up to 4*	Up to 4*
Power Requirements	10-32V	10-32V	10-32V	10-32V	8-32V	8-32V
Connection				1		
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		۲	۷.	2	2	Ζ.
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	· · · · · · · · · · · · · · · · · · ·	1 	·	·	·	·
J1939	9401	9405	9409	9413	9417	9421
Universal (J1939, NMEA2000 and Analogue)	9404	9408	9412	9416	9420	9424

*R3 gateways analogue to NMEA 0183 or 2000 only. **Single engine supported, multiple engine capability coming soon.



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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 R3

**Excluding R3s

Displayed Data If Received From The En	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 Fuel • Fuel Leakage 1 & 2 • Fuel Rate • Fuel Remaining • Instantaneous Fuel Economy • Trip Fuel Economy • Trip Fuel Rate	Miscellaneous • CANtx Disable • Current Gear • Selected Gear • Torque Converter Lock-Up Engaged Percentage • Acceleration Position • Actual Engine % Torque • Coolant Level • Drivers Demand % Torque • Engine Oil Level • Fuel Level • Throttle Position • Torque Use at RPM	 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 Pressure Engine Fuel Metering Engine Oil Filter Differential Pressure Engine Oil Pressure Engine Speed Engine Speed Sensor Exhaust Temperature Fuel Level Fuel Rate Fuel Temperature Intake Manifold Temperature Navigation Based Vehicle Speed 	
Pressure Air Filter 1 Differential Pressure	Speed Engine Desired Operating Speed 		
 Air Inlet Pressure & Air Start Pressure Auxiliary Pressure 1 Barometric Pressure Boost Pressure Engine Oil Pressure 	 Engine Speed Input Shaft Speed Turbo 1 Speed 		
 Fuel Delivery Pressure Injection Control Pressure Injector Metering Rail 1 Pressure Coolant Pressure Pressure Injector Metering Rail 2 Transmission Oil Pressure Clutch Pressure 	Time Total Engine Hours Trip Engine Hours Service Hours 	 Temperature Timing Sensor Total Engine Hours Total Fuel Used Transmission Oil Pressure Transmission Oil Temperature Water In Fuel 	
Temperature			
 Air Inlet Temperature Auxiliary Temperature 1 Engine Coolant Temperature Engine ECU Temperature 	 Engine Oil Temperature Exhaust Gas Port 1 & 2 Temp Exhaust Gas Temp Fuel Temp 	 Intake Manifold 1 Temp Transmission Oil Temp Turbo 1 Compressor Inlet 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.

R3 3" round touch display

C3 3.5" colour display





C3I 3.5" low profile colour display



T5 5" touch display

-ŵ- ₩ YEETHREE @ ₩ And 32.000 Minet 18:48 Winet 18:48

T7i 7" touch display

Eattery Voltage

OI Pressure

12.8

26.4



Accessories

- Power/CAN Harnesses
- Full I/O Harnesses (optional)
- Front Mounting Kits
- > GPS Sensors (optional)
- > Protective Sun Covers

MPH

0 2000 RPM

Branding Accessories (optional)



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Engine Hours

12.8

26.4

Di Pressure