

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 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. 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
- 8 Languages Supported
- > 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





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



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 Er | Faults (Suspect Parameter Number) Available With Relevant Message Such As Too High/Low | | |
|---|--|--|--|
| Electrical | Miscellaneous | 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 Fuel Metering Engine Fuel Metering Engine Load Engine Oil Filter Differential Pressure Engine Oil Level Engine Oil Temperature Engine Speed Engine Speed Sensor | |
| Alternator Current Alternator Potential Battery Potential Switched Electrical Potential Net Battery Current | CANtx Disable Current Gear Selected Gear Torque Converter Lock-Up Engaged | | |
| Fuel | Percentage | | |
| Fuel Leakage 1 & 2 Fuel Rate Fuel Remaining Instantaneous Fuel Economy Total Fuel Used Trip Fuel Economy Trip Fuel Rate | 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 | Speed | | |
| 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 | Engine Desired Operating Speed Engine Speed Input Shaft Speed Turbo 1 Speed Time Total Engine Hours Trip Engine Hours Service Hours | Exhaust Temperature Fuel Level Fuel Pressure Fuel Rate Fuel Temperature Intake Manifold Temperature Navigation Based Vehicle Speed 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 TemperatureExhaust Gas Port 1 & 2 TempExhaust Gas TempFuel Temp | Intake Manifold 1 Temp Transmission Oil Temp Turbo 1 Compressor Inlet Temp Turbo Oil Temp | |





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

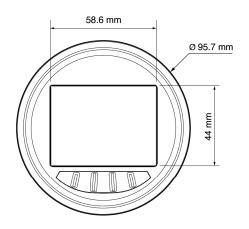




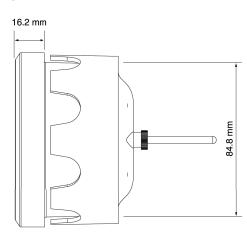
Dimensions

R3S 2.8" ROUND HOUSING DISPLAY

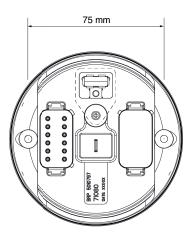
FRONT VIEW



SIDE VIEW

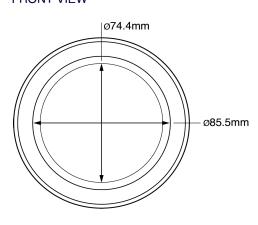


REAR VIEW

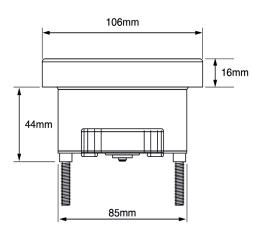


R3 3" ROUND TOUCH DISPLAY

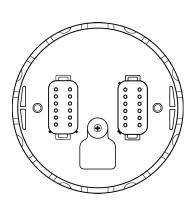
FRONT VIEW



SIDE VIEW



REAR VIEW

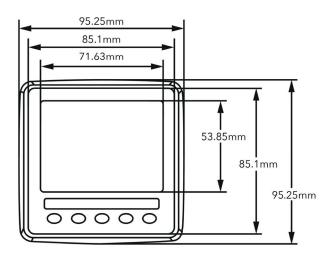




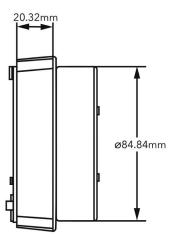
Dimensions

C3 3" COLOUR DISPLAY

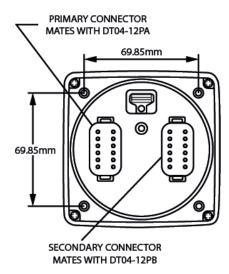
FRONT VIEW



SIDE VIEW

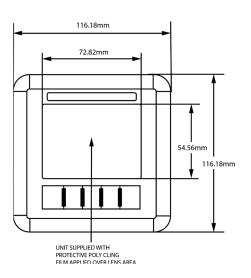


REAR VIEW

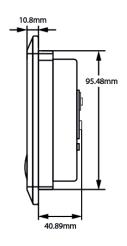


C3L 3" LOW PROFILE COLOUR

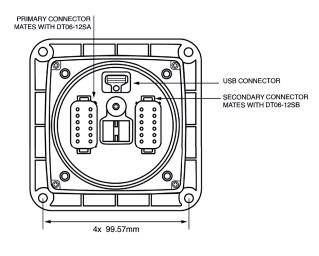
FRONT VIEW



SIDE VIEW



REAR VIEW

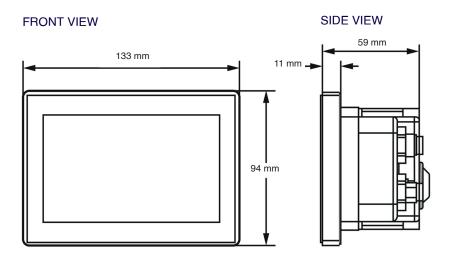


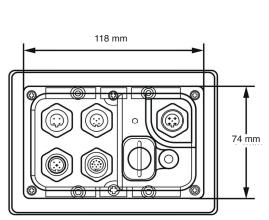


REAR VIEW

Dimensions

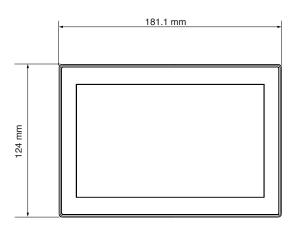
T5 5" TOUCH DISPLAY



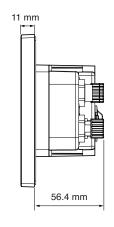


T7I 7" TOUCH DISPLAY

FRONT VIEW



SIDE VIEW



REAR VIEW

