

NMEA2000® VOLUMETRIC FUEL SENDER

FEATURES

- ◆ Output remaining fuel volume or level
- ◆ Suitable for diesel and petrol/gasoline
- ◆ High $\pm 2\%$ accuracy
- ◆ Up to 100 volumetric calibration points
- ◆ Tank depths from 250mm to 2 metres
- ◆ Up to 12 fuel senders on a single network
- ◆ Easy to install
- ◆ Robust stainless steel construction sealed to IP67
- ◆ NMEA2000 network standard
- ◆ Single micro plug to NMEA2000®



The 3271 NMEA2000® Volumetric Fuel Sender provides very accurate measurement and output of either the remaining Fuel LEVEL or the remaining Fuel VOLUME to the NMEA2000 network.

It is accurate to $\pm 2\%$ and automatically provides a stilling action to dampen out fuel slosh in the tank to maximise accuracy when conditions are rough or the boat is travelling quickly.

The 3271 can be programmed with up to 100 volumetric points, so that it offers the most accurate indication of the remaining VOLUME of fuel in the tank. This volume information can then be displayed on any NMEA2000® enabled display, wherever it is required.

No ultrasonic "dead band" which makes it impossible to measure the fuel in the top 75mm or 3 inches of the fuel tank.

Just rugged dependable accuracy with thousands of units installed worldwide. It is now standard fitting on many well known power, sail and work boat builders.

Robustly constructed in stainless steel with no moving parts to stick or fail in service and sealed to IP67 to resist harsh environments.

Available to suit tank depths from 250mm to 2 metres.

The sender constantly monitors the fuel for any water contamination and warns if any is found to protect the engine from expensive damage.

It is easily fitted in the fuel tank using the industry standard SAE 5 bolt fitting, 1.5" NPT or a 1.25" BSP threaded mount. Up to 12 fuel level senders can be connected to a single network and the sender number is simply selectable at installation by means of the small rotary switch.

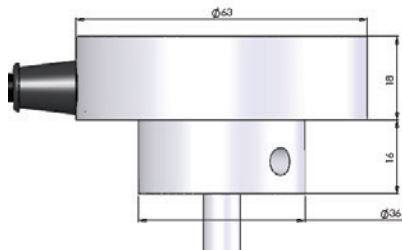
It is manufactured to the NMEA2000® network standard and attaches to the network using a single "micro" plug. It draws less than 50mA from the network

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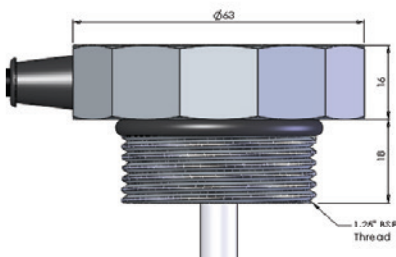
Part Number: 3271
- 500/1000/1500/2000



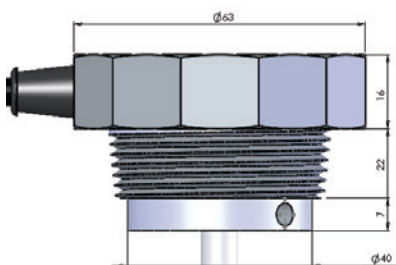
**3271 SAE 5
BOLT Mount Unit
Dimensions**



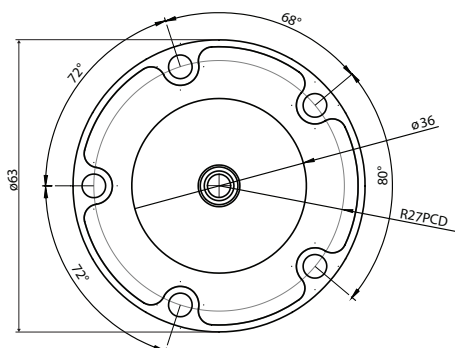
**3271T 1 1/2" BSP
Threaded Mount
Unit Dimensions**



**3271N 1 1/2" NPT
Taper Threaded
Mount Unit
Dimensions**



**SAE 5 BOLT
Mount Unit
Dimensions Plan**



Specification

Accuracy	±2%
Number of Tanks	Up to 12 on a single network

Design Standard

NMEA2000	Level B+
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Environmental Standard

Maritime Nav & Radio-Comm	IEC60945
CE & FCC	Electromagnetic Compatibility

NMEA2000 Parameter Group Numbers (PGNs)

Type	PGN No.	PGN Name
Monitor	PGN127505	Fluid Level
Protocol	PGN126996	Product Information
	PGN059392	ISO Acknowledge
	PGN059904	ISO Request
	PGN060928	ISO Address Claim
	PGN065240	ISO Address Cmd
	PGN126208	Complex Request

Electrical and Mechanical

Parameter	Value
Operating Voltage	9 to 32 VDC
Power Consumption	<50mA (average operating)
Load Equivalence No.	1
Reverse Battery Protection	Indefinitely
Load Dump Protection	Yes to SAE J1113
Head Diameter	63mm
Probe Lengths	250mm to 2 metres
Cable Tail Length	1 metre

Environmental

Parameter	Value
IEC60954 Classification	Exposed
Degree of Protection	IP67
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Relative Humidity	93%RH @40° per IEC60945-8.2
Corrosion - Salt mist	As per IEC60945-8.12
Electromagnetic Emission	Conducted/Radiated per IEC60945-9
Electromagnetic Immunity	Conducted/Radiated per IEC60945-10

Part Numbers - Standard lengths (custom lengths available on request)

Probe Length	Part No.: SAE 5 BOLT	Part No.: 1.25"BSP	Part No.: 1.5"NPT
250 - 500mm	3271-500	3271T-500	3271N-500
500 - 1000mm	3271-1000	3271T-1000	3271N-1000
1000 - 1500mm	3271-1500	3271T-1500	3271N-1500
1500 - 2000mm	3271-2000	3271T-2000	3271N-2000

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