



NMEA2000® Fuel Level Sender



- **High $\pm 1\%$ Accuracy**
- **Self Calibrating**
- **Detects Water in Fuel**
- **No Moving Parts**
- **Manufactured to IEC60945**
- **Robust Stainless Steel Construction**
- **Easy to Install**
- **Standard 5 bolt Mounting**
- **Fits Tank Depths to 1500mm**
- **NMEA2000® Certified**
- **Single Plug to NMEA2000® Bus**
- **Under 50mA Power Usage**

The 3271 is a capacitive fuel level sender that provides a 1% accurate fuel level to the on board NMEA2000® data network every 2.5 seconds. It utilises a powerful micro processor to not only measure the fuel level but to monitor the fuel for any water contamination. If it finds water in the fuel it indicates this by alternately transmitting tank empty followed by tank full messages thus drawing attention to the contaminated tank on the relevant network display.

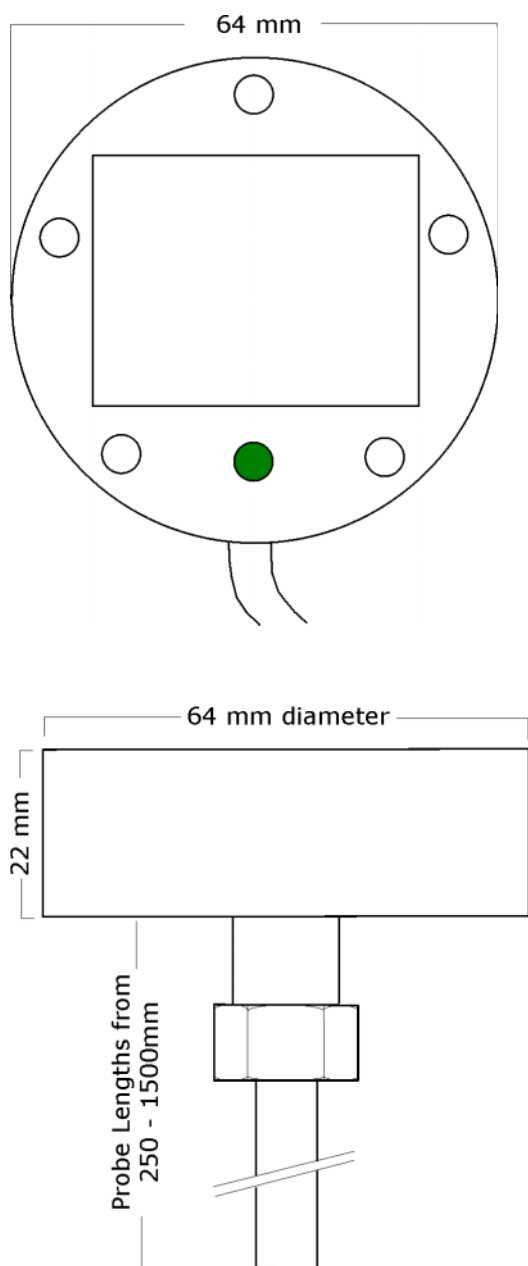
The fuel level sender is robustly constructed in A316 stainless steel to the IEC60945 Maritime Navigational and Radiocommunications Equipment Standard to ensure high reliability and trouble free operation for many years. It is easily fitted in tank depths from 250mm to 1500mm using the industry standard SAE 5 bolt fixing. It is silent in operation and has no moving parts.

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



NMEA2000® Certified Fuel Level Sender

Part Nos: 3271-500, 3271-1000 and 3271-1500



Specification	
Accuracy	±1% of Level
Tank Depths	From 250 to 1500mm deep
NMEA PGNs	
Periodic	PGN 127505 Fluid Level
Requestable	PGN 126464 Tx & Rx PGN List PGN 126996 Product Information PGN 126998 Configuration Information
Protocol	PGN 059392 ISO Acknowledge PGN 059904 ISO Request PGN 060416 ISO Conn Management PGN 060160 ISO Data Transfer PGN 060928 ISO Address Claim PGN 065240 ISO Address Command PGN 126208 NMEA Request Group
Electrical	
Operating Voltage	9 - 16 Volts DC from NMEA network
Connector	Micro plug
Power	<50mA
Load Equivalence	1 LEN according to NMEA2000 spec
Reverse Battery	Fully protected
Mechanical	
Body Size	64mm Diameter x 22mm above Tank
Mounting	Standard SAE 5 bolt pattern
Probe Length	Supplied as 500, 1000 or 1500mm lengths to be cut during installation or to custom lengths
Weight	425 grams
Environmental	
IEC Classification	Exposed
Protection	IP68
Operating Temp	-20°C to 50°C
Storage Temp	-50°C to 70°C
Relative Humidity	93% RH @ 40°C per IEC60945-8.2
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s ² per IEC 60945-8.7
Rain & Spray	12.5mm nozzle @ 100 ltrs/min from 3m for 30 mins per IEC60945-8.8
Salt Mist corrosion	4 x 7 days @ 40°C, 95% RH after 2 hour salt spray per IEC60945-8.12
EMC Emission	Conducted & Radiated per IEC60945-9
EMC Immunity	Conducted, radiated, supply and ESD per IEC60945-10



Our policy is one of continuous product improvement so product specifications are subject to change without notice. Our products are designed to be accurate and reliable, however, they should only be used as aids to the safe management of the boat and not as a replacement for traditional aids and techniques.

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