

NMEA2000® FRESH WATER LEVEL SENDER

FEATURES

- ◆ Output remaining water volume or level
- ◆ High $\pm 2\%$ accuracy
- ◆ Proven reliability - over 10,000 installed
- ◆ Tank depths from 250mm to 2m
- ◆ Up to 12 water senders on a single network
- ◆ Easy to install
- ◆ Robust stainless steel construction
- ◆ NMEA2000® network standard
- ◆ Single micro plug to NMEA2000®
- ◆ No ultrasonic “dead band” at top of tank



The 3281 Water Level Sender will measure the water level in the fresh water tanks. They provide a $\pm 2\%$ accurate tank level to the NMEA2000® marine network.

They are robustly constructed in stainless steel with no moving parts to stick or fail in service. They are easily cut to length to suit tank depths from 250mm to 2m.

They are easily fitted in the tank using a single 1.25" BSP threaded hole or into the standard SAE 5 bolt fitting by using the SAE 5 Bolt to 1.25" Sender Mounting Ring Adaptor (optional).

Up to 12 senders can be connected to a single network and the tank number is simply selectable at installation by means of the small rotary switch.

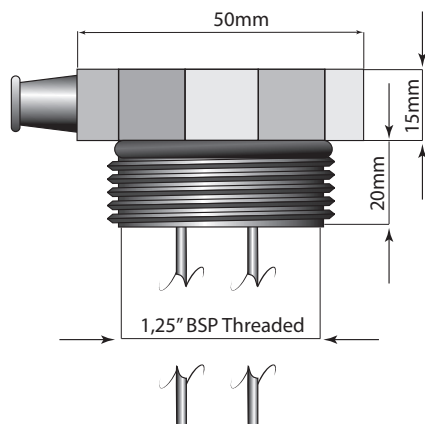
It is manufactured to the NMEA2000® network standard and attaches to the network using a single “micro” plug. It draws less than 50mA from the network.

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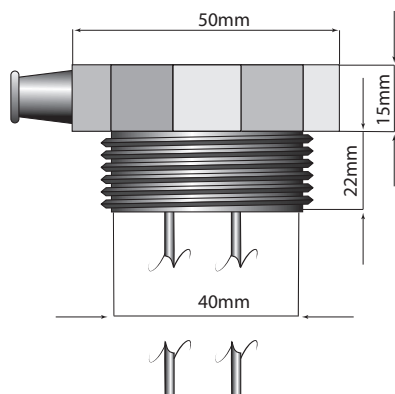
Part Number: 3281
- 500/1000/1500/2000



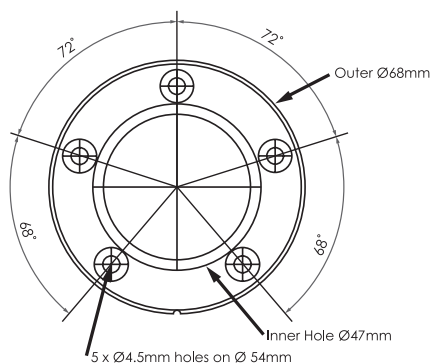
**3281T Water Sender
Dimensions**



**3281N Water
Sender Dimensions**



**3261 Adaptor Ring
Dimensions**



Specification

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

Design Standard

NMEA2000	Level B+
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
Load Equivalence No.	1
Reverse Battery Protection	Yes
Load Dump Protection	Yes
Head Diameter	63mm
Probe Lengths	250mm to 2m
Weight	350g
Mounting	1.25" BSP Thread, 1.5" NPT Thread or SAE 5 bolt with 3261 adaptor ring

Environmental

Parameter	Value
IEC60954 Classification	Exposed
Degree of Protection	IP67
Operating Temperature	-20°C to 55°C
Storage Temperature	-40°C to 70°C
Relative Humidity	93%RH@40°C 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.: 1.25"BSP	Part No.: 1.5"NPT
250 - 500mm	3281T-500	3281N-500
500 - 1000mm	3281T-1000	3281N-1000
1000 - 1500mm	3281T-1500	3281N-1500
1500 - 2000mm	3281T-2000	3281N-2000

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NMEA2000® is a registered trademark of the National Marine Electronics Association