LOWRANCE
SIMRAD
B&G

Fuel Flow Sensor

Installation Guide

* 9 8 8 - 1 0 7 1 4 - 0 0 1 *

Before commencing the installation

Caution:

Gasoline is extremely flammable. If possible, drain the fuel line before you start or shut any flow valves located at the tank. Keep sparks and flame away from the work area. After installation, remember to clean up any spilled fuel.

⚠ DANGER

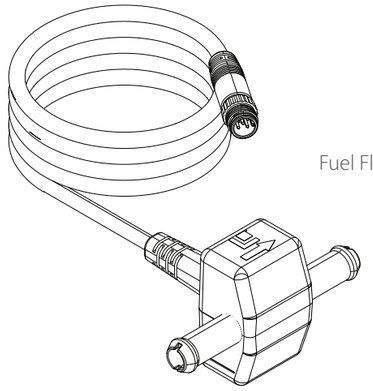
No Smoking
No Open Flames
No Sparks

Fuel Filter

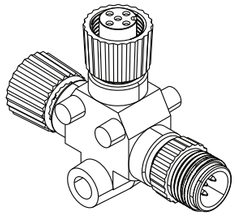
You must install an in-line fuel filter between the tank and the Fuel Sensor sensor. This will prevent a malfunction caused by contaminated fuel. Debris in unfiltered fuel can clog the sensor's turbine and result in rough performance or engine shut down.

As with any fuel system, we recommend you always carry onboard a spare fuel filter and an in-line (3/8") splice barb. This allows you to remove a clogged Fuel Sensor or fuel filter and restore engine operation if the fuel filter fails. We strongly recommend that you inspect your entire fuel system at regular intervals.

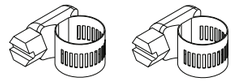
Whats in the box



Fuel Flow Sensor

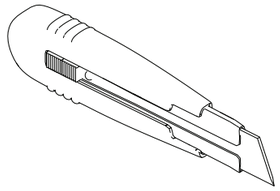


Micro-C T-Joiner

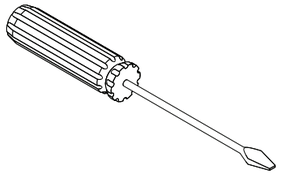


Stainless steel hose clamps

Tools required

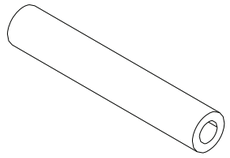


Sharp knife for cutting fuel line

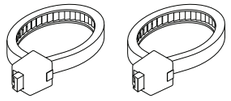


Screw driver for tightening hose clamp

Other parts required



The Fuel Flow was designed to fit a typical 3/8" SAE USCG Type A1 fuel hose. If your engine has different diameter hoses or metal fuel lines, a section of 3/8" fuel line must be installed between the sensor and the existing lines.



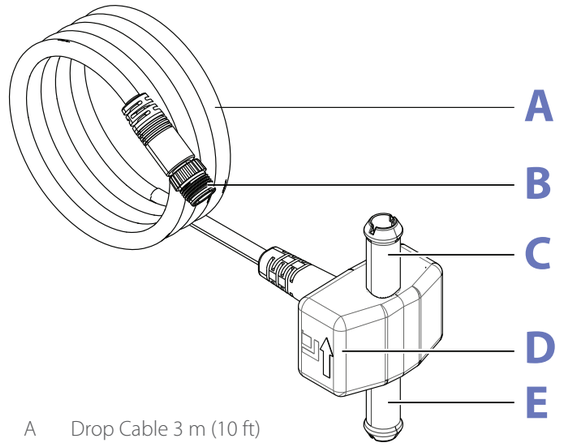
Cable ties for securing Fuel Flow Sensor

Overview

The Fuel Flow Sensor is a device for measuring the flow rate of fuel for gasoline powered boats.

⚠ The Fuel Flow Sensor is designed for gasoline engines only.

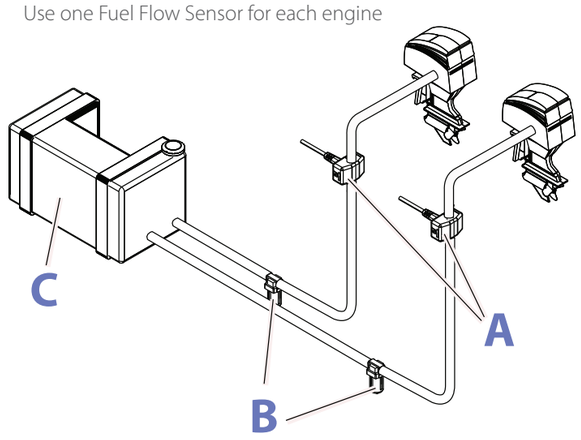
The Fuel Flow Sensor does not operate diesel engine fuel systems, or on any fuel system with a return fuel line or sump.



A Drop Cable 3 m (10 ft)
B Male Micro-C connector
D Fuel Flow sensor: Arrow indicates fuel flow direction
C Fuel line connector (3/8"): To engine
E Fuel line connector (3/8"): From tank

Plan the installation

Use one Fuel Flow Sensor for each engine

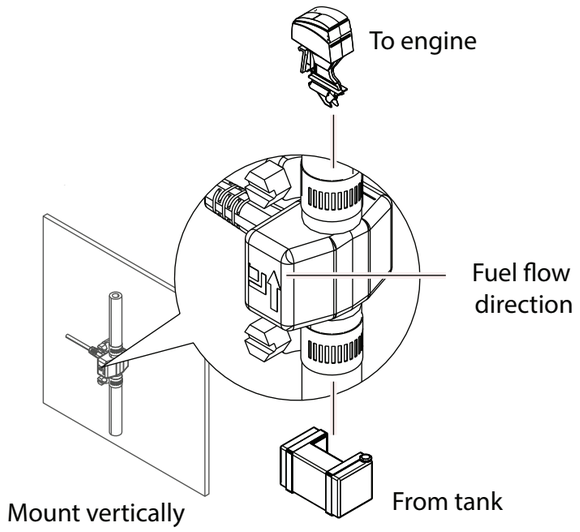


A Fuel Flow sensor: Arrow indicates fuel flow direction
B Fuel Filters: One before each fuel sensor
C Fuel Tank

Plan the installation

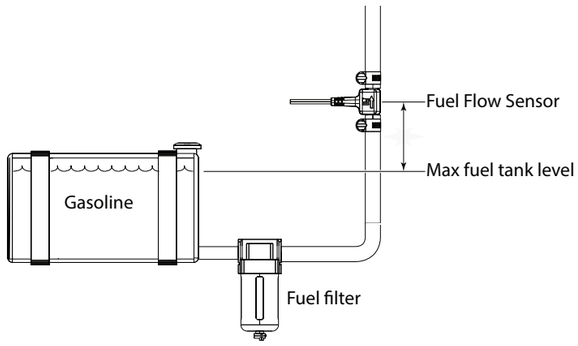
Mount to vibration free surface with the flow direction arrow pointing upwards.

Mount as close as possible to the fuel tank



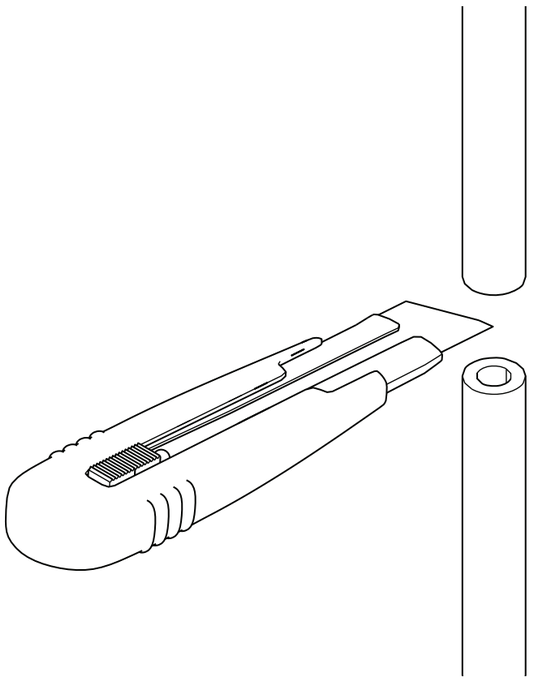
Plan the installation

Mount the sensor above the tank's maximum fuel level to avoid accidental fuel leakage in case the sensor becomes disconnected.



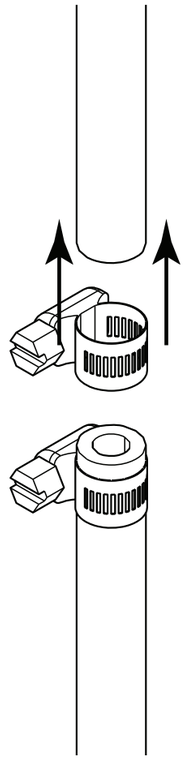
Install the fuel flow sensor

Cut the 3/8" fuel line at the appropriate place



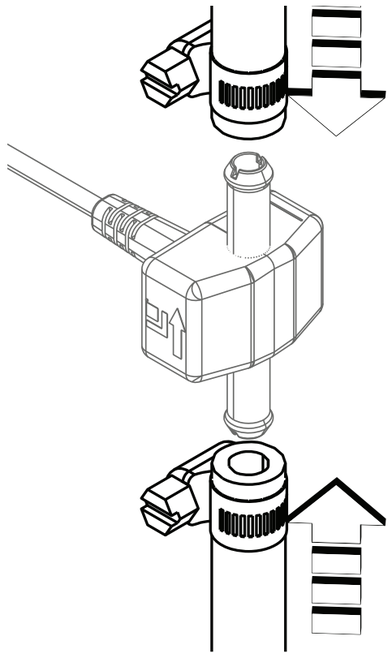
Install the fuel flow sensor

Slide hose clamps on to the fuel line



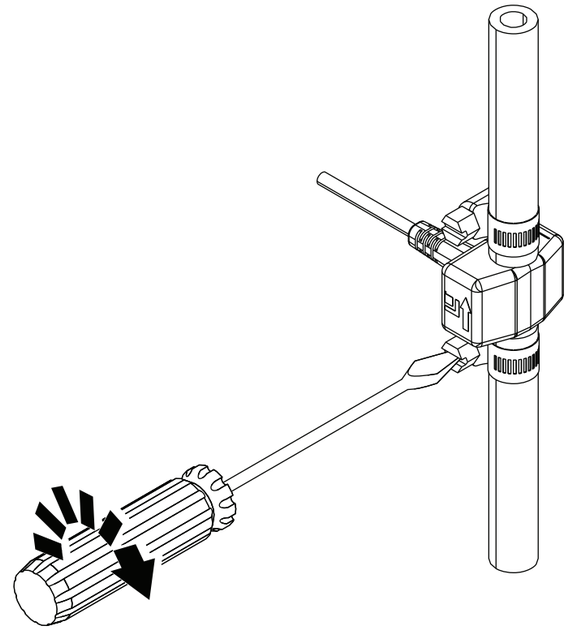
Install the fuel flow sensor

Push the fuel hose on to the sensors barbs checking the flow direction is correct



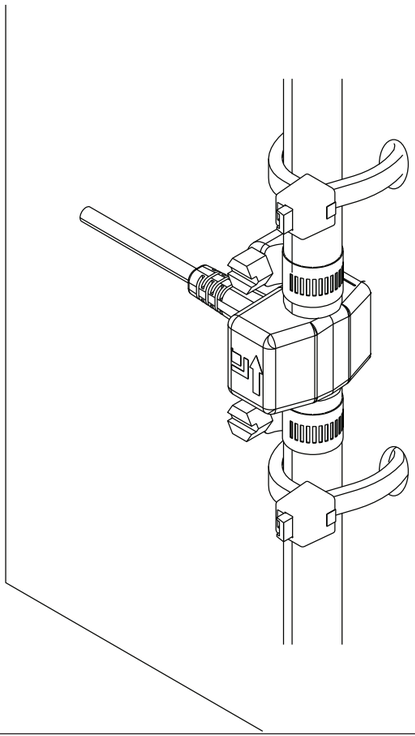
Install the fuel flow sensor

Tighten to hose clamps



Install the fuel flow sensor

Secure the Fuel Flow Sensor taking care not to compress the fuel hose



Connect the Fuel Flow Sensor to the network

The Fuel Flow Sensor connects to a powered Micro-C NMEA 2000 compliant network using the provided T-Joiner

A Micro-C drop cable 3 m (10 ft)

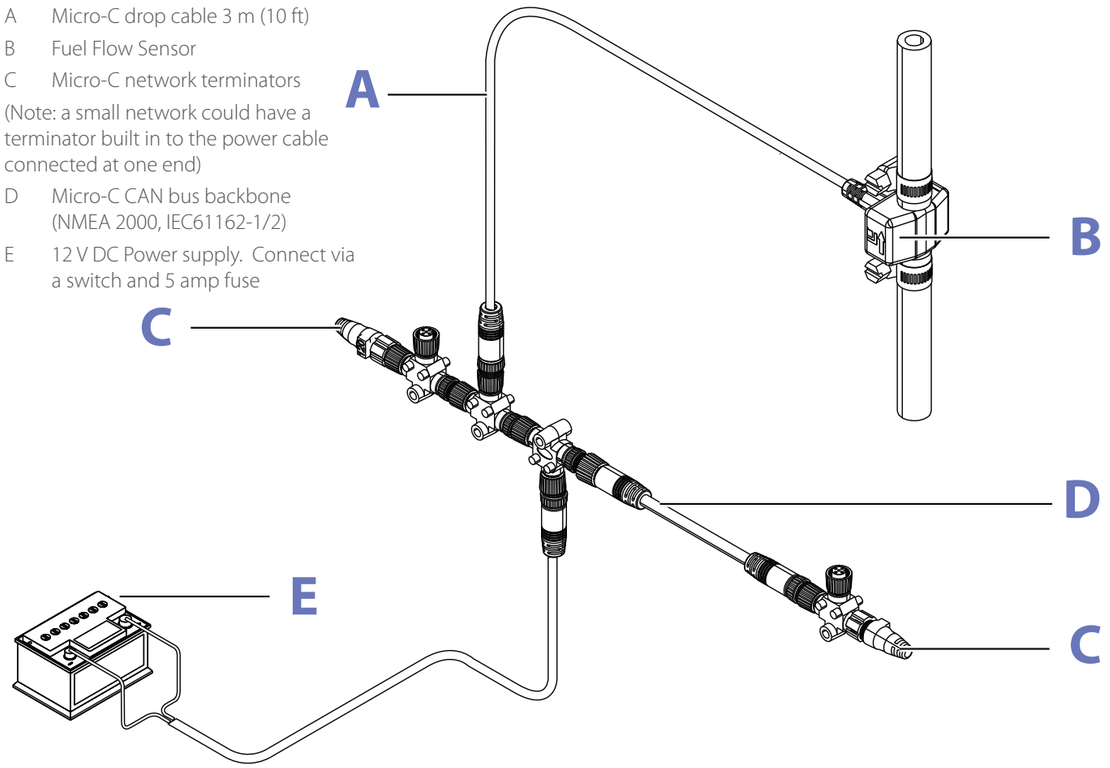
B Fuel Flow Sensor

C Micro-C network terminators

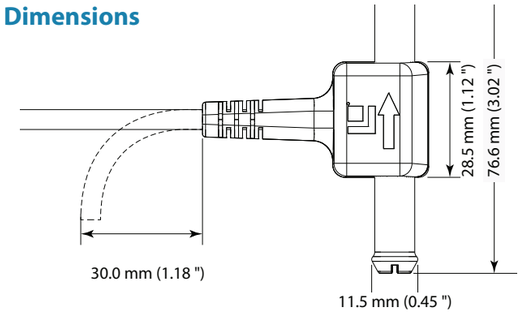
(Note: a small network could have a terminator built in to the power cable connected at one end)

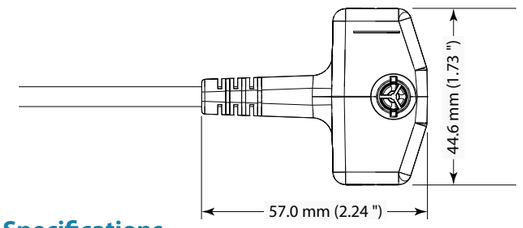
D Micro-C CAN bus backbone (NMEA 2000, IEC61162-1/2)

E 12 V DC Power supply. Connect via a switch and 5 amp fuse



Dimensions





Specifications

Flow rates measured (optimum):	0.6 - 45 Gal US / Hour
	2.27 - 170 Li/Hour
Back pressure	0.5 psi / 20 Gal US / Hour
PGNs transmitted	59392 – ISO Acknowledgment
	59904 – ISO Request
	60928 – ISO Address Claim
	126996 – Product Information
	127489 – Engine Parameters, Dynamic