

Installation Instructions 10233 1" FPT Cooling Water Flow Switch

Introduction

The Maretron 10233 is an accessory for the SIM100 Switch Indicator Module. The 10233 has a set of normally closed contacts that will open whenever a flow of cooling water of a user-settable amount is detected.

Instructions

Please follow these instructions to connect the 10233 to the NMEA 2000 network via a Maretron SIM100 Switch Indicator Module. The wiring diagram appears in Figure 1. The diagram shows a connection to channel #1, but connections to other channels are similar. Please refer to the original manufacturer's instructions packaged with the product for additional details including setting of the switch activation flow rate.

1. Install the two wires from the 10233 to a free switch channel on the SIM100. The two wires are interchangeable. The example in Figure 1 shows the flow switch connected to switch channel 1, terminals SW1A and SW1B.
2. Use a Maretron DSM150 or DSM250 display or Maretron N2KAnalyzer software to set the switch channel mode (indicated as "Channel #x Mode" on the DSM250) for the appropriate channel to the "No End of Line Resistor" setting. For this example, you would set "Channel #1 Mode" to "No End of Line Resistor".
3. Supply Power to the NMEA 2000 network, Verify that the switch channel indicates an "on" (normal) state using Maretron N2KView software, N2KAnalyzer, or other product capable of displaying switch indicator state.
4. Start cooling water flow through the 10233 and verify that the switch channel indicates an "off" state.

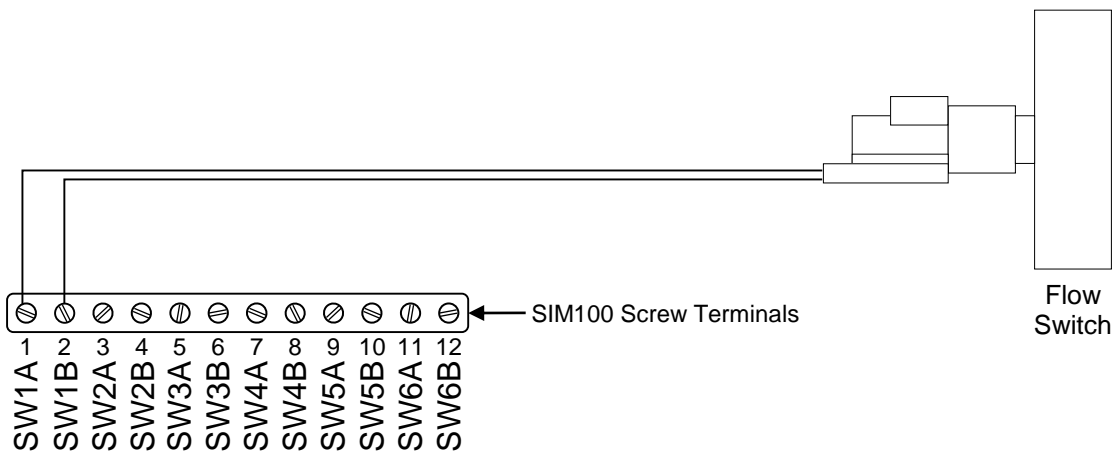


Figure 1 - Wiring Diagram

Device Specifications

Parameter	Value
Inside Diameter	1" (25.4mm)
Outside Diameter	1.92" (48.7mm)
Length	6.00" (152.7 mm)
Height	5.75" (146.05mm)
Activation Flow Rate	3 – 5 GPM (11.36 – 18.93 LPM)
Contacts	Normally Closed
Connections	1" FPT Female
Switching Rating	50W
Switching Voltage (Max)	300VAC / 300VDC
Maximum Switching	3.0A
Heat Resistance, Continuous	210°F (99°C)
Maximum Pressure	275 PSI @ 73°F 19.0 bar @ 23°C
Construction	CPVC
Connection	5' (1.5m) Marine Grade Tinned Wire Leads

For installation support, please contact:

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AQUALARM

COOLING WATER FLOW DETECTOR, PADDLE TYPE 10233, Installation Instructions

The Aqualarm 10233 has 1" Female Pipe Threads. Use 1" Male Pipe Threads to Hose Barb fittings corresponding to your hose size.

Install the Flow Detector between the raw water sea Strainer and engine pump raw water intake. The Detector can be installed between the engine raw water discharge and exhaust water overboard.

NOTE: Double clamp all hose connections and be sure the **FLOW Detector arrow on the Detector corresponds with the engine raw water flow direction.**

The Flow Detector can be installed in the vertical or the horizontal position.

Complete the installation by following the wiring diagram. The electrical switch on the flow detector does not have any polarity and the wire leads can be used interchangeably. 18 to 22 gauge wire can be used.

Now with a 3.0 amp switch

12v, 24v, 32v

NOTE: You will need 3 to 4 Gallons Per Minute of flow. For smaller engines use #13209 Low Flow

Typical Wiring Diagram

