



Fluid Temperature Sensor



Technical Specification

The Syvecs Fluid temperature sensor is engineered to measure fluid temperatures—such as oil, water, or fuel. Its negative temperature coefficient (NTC) sensing element decreases resistance as temperature increases, enhancing conductivity.

Key Features:

Temperature Range: Operates effectively between -40°C and 150°C.

Accuracy: $\pm 1.4^{\circ}\text{C}$ at 25°C; $\pm 0.8^{\circ}\text{C}$ at 100°C.

Nominal Resistance: $2.5\text{ k}\Omega \pm 6\%$ at 20°C.

Response Time: Less than 15 seconds (τ_{63}) in still water.

Mechanical Specifications:

Male thread: M12 x 1.5

Wrench size: 19 mm

Installation torque: 18 Nm

Weight (without wire): 28.3 g

Sealing: Aluminum washer

Temperature (T) [°C]	Resistance (R) [Ohm]
-40	45,313
-30	26,114
-20	15,462
-10	9,397
0	5,896
10	3,792
20	2,500
30	1,707
40	1,175
50	834
60	596
70	436
80	323
90	243
100	187
110	144
120	113
130	89
140	71
150	57

