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## 9000 OEM Kit

SensComp's 9000 OEM Kit provide the Transducers and Drive Electronics for prototype development using our popular Series 9000 Piezoelectric Transducer

### Features

- Accurate Sonar Ranging from 12 inches to 18 feet
- Drives a 45 kHz Series 9000 Piezoelectric Transducer
  - Without an Additional Interface
- Operates from a Single Power Supply Source
- Accurate Clock Output Provided for External Use
- Selective Echo Exclusion
- TTL Compatible
- Multiple Measurement Capability
- Integrated Transducer Cable
- Variable Gain Control Potentiometer

### Part No.

PID# 606790 – 9000 Series OEM Kit

### Kit Contents

- 2 – Series 9000 Piezoelectric Transducers
- 2 – Series 9000 Sonar Ranging Modules
- 1 – Ultrasonic Ranging System Manual
- 1 – Application Notes/Technical Papers

### Specifications

**Distance Range (9000):**.....0.3 to 5.5 M  
 (1.0 to 18 Ft)  
 Distance range measurement performed using  
 a 4 foot by 4 foot flat target

**Power Required:** (Each module)  
**Voltage**..... 4.5 to 6.8 VDC  
 (+5 VDC nominal)  
**Current**..... 100 mA

**Outputs:**  
 TTL Open collector outputs require a pull-up resistor  
 to Vcc (typically 4.7 Kohms to Vcc=+5V)



### Description

The **OEM Kit** is a great building block for prototypes. It contains all of the front-end drive electronics necessary to create a ranging system.

Included in the package are two Series 9000 Piezoelectric Ultrasonic Transducers, as well as two 9000 Series Ranging Modules, wires, connectors and technical information.

The output from the Kit is a TTL level signal going from low to high when an echo is received. To get distance information, the user measures the elapsed time between the start of transmit signal and the echo received signal. Knowing the speed of sound in air, this time measurement can be converted into a distance measurement.

For a complete ranging system, in addition to the 9000 Sonar Ranging Module, the user must supply the electronics to perform the input triggering, the trigger-to-echo time measurement, and the display functions for the system.