



SensComp, Inc.
36704 Commerce Rd.
Livonia, MI 48150 USA
Telephone: (734) 953-4783
Fax: (734) 953-4518
www.senscomp.com

Series 600 and 7000 OEM Kits

SensComp's Series 600 and Series 7000 OEM Kits provide the ultrasonic sensors and drive electronics for prototype development using our popular Series 600 or Series 7000 Electrostatic Ultrasonic sensors

Features

- Accurate Sonar Ranging from 6 inches to 35 feet
- Drives a 50 KHz Electrostatic Ultrasonic Sensor 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 Ultrasonic Sensor Cable
- Variable Gain Control Potentiometer

Part No.

- *PID# 606782LF – Series 600 Environmental Grade OEM Kit
- *PID# 606783LF – Series 600 Instrument Grade OEM Kit
- *PID# 606784LF – Series 600 Open Face OEM Kit
- *PID# 606785LF – Series 7000 OEM Kit
- *RoHS Compliant

Kit Contents

- 2 - Electrostatic Ultrasonic Sensors (Series 600 or 7000)
- 2 – SMT 6500 Ranging Modules
- 1 – Ultrasonic Ranging System Manual
- 1 – Application Notes

Specifications

Distance Range:..... 0.15 to 10.7 M
(0.5 to 35 Ft)

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 4.7K Ω to Vcc = +5V)

Notes:

[1] Lines which may occasionally appear in foil have no effect on product functionality or performance.

[2] Variations in die depth may result in minor variations of tolerances.



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 Electrostatic Ultrasonic sensors: either Series 600 (Instrument Grade, Environmental Grade, or Open Face) or Series 7000. Also included are two SMT 6500 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 6500 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.

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