SensComp's Series 600 Instrument Grade electrostatic transducer is specifically intended for operation in air at ultrasonic frequencies. The assembly comes complete with a perforated protective cover.

**Features**
- 50 kHz Electrostatic Transducer
- Beam Angle of 15° at -6 dB
- Ranges from 6" to 35'
- Excellent Receive Sensitivity
- Perforated Protective Cover.
- Specifically Intended for Operation in Air at Ultrasonic Frequencies

**Part No.**
- PID# 604142 – Series 600 Instrument Grade Transducer

**Benefits**
- Able to Range from 6” to 35’
- Excellent Receive Sensitivity

**Applications**
- Level Measurement, Proximity Detection, Presence Detection, Robotics, Educational Products

**Description**
The Series 600 ultra sensitive transducers feature ranging capability from 2.5 cm to 15.2 m when used with SensComp drive electronics. They are ideally suited for demanding applications where the most sensitivity possible is the highest priority. These ultrasonic transducers are among the best available when detecting soft targets. They have a broad band frequency response.

For more information, visit our website: [www.senscomp.com](http://www.senscomp.com)
Series 600 Instrument Grade Specifications

Usable Frequency Range
Transmitting ........................................... See Graph
Receiving .............................................. See Graph

Beam Pattern ......................................... See Graph
Typical: 15° at -6dB

Transmitting Sensitivity .......................... 110 dB min
at 50.0 kHz; 0dB re 20 µPa at 1 meter
(300 VACpp; 150 VDC bias)

Receiving Sensitivity .............................. -42 dB min
at 50.0 kHz; 0dB = 1 volt/ Pa
(150 VDC bias)

Distance Range ..................................... 0.15 to 10.7 M
(0.5 to 35 feet)

Resolution (± 1% over entire range) .......... ± 3mm to 3m
(± 0.12 to 10 ft)

Weight .................................................... 8.2 gm (0.29 oz)

Suggested DC Bias Voltage ................. 200V
Suggested AC Driving Voltage .......... 200V peak
Combined Voltage ............................... 400V max
Capacitance at 1 kHz (typical) .......... 400–500 pf
(at 150 VDC bias)

Operating Temperature ....................... -30 to +70° C
(-20 to 160° F)

Relative Humidity (non condensing) ...... 5% - 95%

Dimension
Thickness ............................................ 0.46 inch
Diameter ............................................. 1.69 inch

Standard Finish
Foil .................................................. Gold
Housing ........................................... Flat Black
Cold Rolled Steel

Specifications subject to change without notice

For more information, visit our website: www.senscomp.com