

# T1

## Developer's Module for Evaluation of AIRDUCER® Transducers

Designed for fast and easy evaluation of Airmar's Ultrasonic Transducers, we are pleased to offer our versatile, T1 Transceiver Module. The entire frequency range of 30 kHz to 300 kHz Airmar transducers can be driven by the T1. With transmit voltage output of 200 V<sub>pp</sub> to 500 V<sub>pp</sub> and adjustable pulse width and frequency, the suitability of a piezoelectric transducer for a specific application can be clearly assessed.

A selectable receiver gain up to 60 dB allows amplification of echoes and viewing of waveforms on any oscilloscope. The T1 is a compact printed circuit board 76 mm x 76 mm and offers convenient connections to our ultrasonic transducer and your power supply.



### SPECIFICATIONS

**Transmit Voltage:** 200 V<sub>pp</sub> to 500 V<sub>pp</sub>  
**Selectable Receiver Gain:** 0 dB, 20 dB, 40 dB, or 60 dB  
**Frequencies:**  
 30 kHz, 41 kHz, 50 kHz, 75 kHz, 120 kHz, 200 kHz, 225 kHz or 300 kHz  
**Supply Voltage:** 15 VDC  
**Printed Circuit Board Size:** 76 mm x 76 mm

## 30-300 kHz Transceiver Module

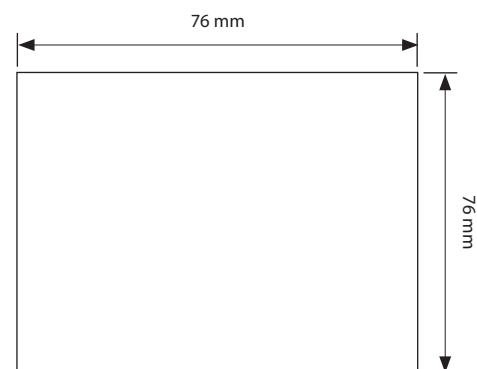
### Applications

- Echo-ranging
- Liquid-level detection
- Obstacle avoidance
- Proximity sensing

### Features

- Frequency and pulse width adjustable

### Dimensions



### Additional Resources

Theory of  
Operations



Applying  
Ultrasonic  
Technology

