



## Trans-Ind, the Aircraft Comm. Transmit Indicator

A product from Electrical Efficiency Systems



### Product Description

Engine performance is monitored with temperature and pressure gauges, and tachometers to let you know immediately when there is a problem that could result in engine failure. The sooner a problem is noted, the more time and options there are to deal with it. Likewise, continuously monitoring your radio transmitter performance allows more time and options to handle communications radio problems.

Trans-Ind (**Transmit Indicator**) monitors your communications transmitter every time you push the transmit button and lets you know that you are putting out radio waves as well as voice.

The two full-sun visible LED indicators, carrier and voice, provide a clear indication of the most common aircraft transmitter problems: stuck transmit buttons and incorrect or inoperative microphone connections.

Trans-Ind is battery powered, with a battery life of about 100 hours. The instrument mounts to the top of the instrument panel with velcro strips that are included. The unit does not emit any radio waves and will not interfere with existing radios.

## How it Works

Trans-Ind is a broadband radio frequency detector. The unit detects the entire aircraft communications band, 118 to 137 MHz. There is no oscillator or mixer that can interfere with your existing aircraft radios.

Trans-Ind indicates the actual radiation energy, it does not matter which nearby transmitter is operating or why it is operating. If the 121.5 MHz ELT (Emergency Locate Transmitter) is activated the Trans-Ind will light. If the transmit relay in your transmitter is stuck Trans-Ind will light even though the transmit button is not pushed. Using a hand held transmitter will cause Trans-Ind to light up.

## How to Use Trans-Ind

The single power button and two LED indicators make the use of the instrument intuitive and straightforward. When Trans-Ind's power button is pushed both blue and yellow LED's will blink during a power-on self check. The power switch is the only control; there are no adjustments or other switches. When power is on, the blue LED is illuminated but dim, visible only in shadow.

Keying a transmitter microphone will illuminate the yellow LED. As you start to talk, the blue light will come on.

## Specifications

Because Trans-Ind does not connect to aircraft wiring and is not permanently connected to the instrument panel it does not need to be certified.

Frequency Range	118.00 MHz to 137.5 MHz
Sensitivity	Unit will indicate transmission within 10 feet horizontal of a 10 Watt transmitter.
Modulation Detect	Blue LED lights when modulation is over 30% independent of RF power level
Battery Life	100 hours with an alkaline 9V battery and transmission less than 5% of the time.
Weight	135 grams with battery installed.
Size	3.1 X 4.75 X 0.95 inches, 78.5 X 121 X 24 mm
Operating Temperature	0 to 120 degrees F.
Low battery Indication	Blue LED flashes with battery less than 6.5 volts.



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