TECHNICAL NOTE

T-RAD-ANALOG POWER SUPPLY

The T-RAD-Analog (202306) is designed to provide a stable, quiet DC voltage to our THZ-B detectors. It includes an on/off switch, power light, analog output BNC, DB-15 detector connector and AC power supply jack.

The T-RAD-Analog includes a 9 V battery and a DC power supply. When the unit is turned on, without the supply, it will provide battery power to the detector probe. When the supply is attached the battery is bypassed. The battery can be easily replaced as described on the next page.

Our Analog THZ-B series detectors must be used with the T-RAD-Analog power supply and a Digital Lock In Amplifier for optimum performance.

FEATURES

- Designed to provide a regulated DC voltage to our DB15 cable based, THZxB-BL-DA detector probes
- Can be operated by battery or DC voltage wall supply (both are provided)
- Includes power on/off switch and power on lamp
- Has a detector analog output BNC connector
- Analog voltage output from +5V to -5V

UNIQUE DB15 CONNECTORS

The DB15 connector on the T-RAD-Analog has an inserted pin, while THZxB-BL-DA probes have a pin removed from the connector. This prevents the connection of any other model probe.

APPLIES TO MODELS:

- THZ5B-BL-DA (202292)
- THZ9B-BL-DA (202294)

APPLICATIONS:

- Designed to power our analog THZ detectors
- For use with digital or analog oscilloscopes to measure power
- For use with a Lock In Amplifier, for ultimate performance, to measure radiant flux from nanowatts to microwatts

TECHNICAL NOTE

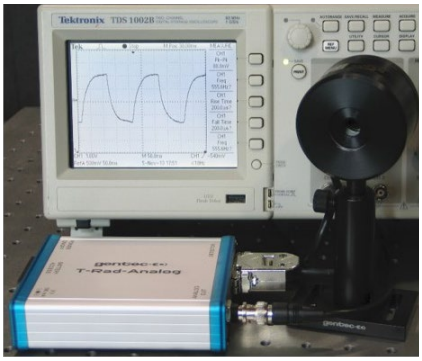
REPLACING THE 9V BATTERY

Here are the easy steps to removing and replacing the 9V battery in the T-RAD-ANALOG:

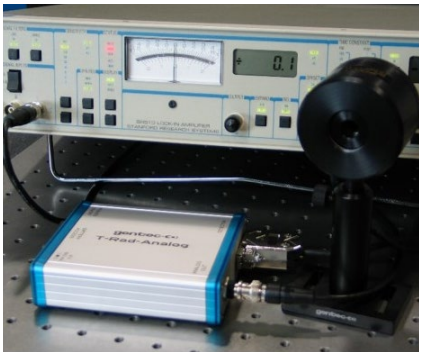
1. **Pick up and hold the T-RAD-ANALOG in one hand.**
2. **Orient the T-RAD-ANALOG so that the battery compartment is facing you.**
3. **Insert your thumb nail into the slot provided in the battery holder and lift up. The battery holder will release.**
4. **Pull the battery holder toward you and out of the T-RAD-ANALOG.**
5. **Remove the 9 V battery.**

6. **When placing the new battery in the holder please make sure to orient the battery + and – as shown in the bottom of the battery holder.**
7. **With the battery in the holder re-insert it into the T-RAD-ANALOG, making sure it is all the way in until it locks in place.**

T-RAD-ANALOG DETECTOR SET-UPS



T-RAD-Analog set up with a THZ9B-BL-DA detector connected to a digital scope, measuring in volts (V/W) at a 5 Hz chopping frequency.



T-RAD-Analog set up with a THZ9B-BL-DA detector, connected to a Lock In Amplifier, measuring in volts (V/W) at a 5 Hz chopping frequency.

DESCRIPTION	SPECIFICATION
Power Supply	9 V battery
DC Power Supply	9 VDC, 1.66 A 100/240 VAC, 50-60 Hz
Voltage Output	± 4.88 V in 1 kOhm
Battery Access	Removable battery holder
Size	101.6W x 30.5H x 127D mm

For more information about these products, check out the website at gentec-eo.com or give us a call.

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