



Geoscanners AB®

TR501 THE TRANSCEIVER SOLUTION



TR501

The TR501 transceiver is a specially designed plug-in transceiver for GSSI SIR® Systems compatible antennas. It has both transmit and receive functions in one electronic plug-in. The TR501 has all the advantages of its predecessors and a great deal of new implementations and performance enhancements. The unit is designed and built to offer the best reliability and repeatability possible in this class of devices.

Features

The TR501 has two separate transmitting channels for each antenna terminal, both are carefully matched by amplitude and phase so the ringing back from your antenna is minimized. There are no late returns causing inexplicable horizontal lines and most importantly there are no dead zones of tens of nanoseconds. The data is sampled using top of the line extra low noise bridges with differential output to the last stage. The unit is calibrated so the same results are guarantee with every unit that we sell.

Added Value

The TR501 fits without modifications or amendments into any antenna supporting GSSI compatible plug-in electronics. It gives the possibility of using marker, survey wheel or bistatic mode operation without any extra cost. No need to buy expensive breakout boxes or anything like it in order to use the survey wheel.

The handle of the unit is about half an inch higher than in the competitor's model, that's to easy the connection of the big radar cable. The RF transmitter loop was made very short so it doesn't get hook up on branches or any other things during the survey.

Deep geotechnical, engineering and mining surveys have a new perspective with the TR501 transceiver.

Short Technical Data:

Scope of application:

- Antennas 3205 and 3207 from GSSI
- Subecho-40, Subecho-70 and Subecho-150 from Radarteam Sweden AB

Inputs:

- Trigger and Power from SIR[®] control unit
- Survey wheel encoder A and B quadrature inputs
- Marker button

Outputs:

- Data to SIR[®] control unit
- Transmitter Trigger and DC power to VHT501 or VHP778
- Survey wheel encoder 5 VDC power

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