

Trig TT21 Transponder – Modifications to the transmitter board.

12<sup>th</sup> February 2018

The modifications to the TT21 transmitter board were necessitated by the impending exhaustion of life-bought stocks of the devices used in the first two stages of the transmitter strip. The final device was still available, but during the development of the new version, that too became subject to an end-of-life notification.

The modified design follows that of the original, but with modern alternatives to the original parts. The first stage simply uses a close equivalent of the original part.

The second stage and final stage are now amalgamated in a single package, but operate as before as cascaded stages with separate matching and bias arrangements. There are no modern final devices for class-2 transponders, so a class-1 device has had to be used, with a reduced supply voltage to meet the power output and power consumption requirements.

The TT21 retains its original output filtering structure and its modulator design.

The modified TT21 transponder meets all the same specifications as the original. It remains electrically and functionally identical to the original and is used in the same application.



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