

CW Transmitter

Written by Hans Summers

Sunday, 19 April 2009 08:14 - Last Updated Monday, 03 January 2011 14:37

LETHAL VOLTAGES ARE PRESENT - GREAT CARE REQUIRED!!

This one-valve (ECL82) CW Transmitter occupies a very special place in my amateur radio history. I was first licensed in 1994 but did not operate on air. I committed to only ever operate equipment which I had made myself. I had no time for radio construction and several years passed. In early 2002 I came across a [design by Jan Axing, SM5GNN](#) and decided to build it. The transmitter worked first time and tuning was exactly as Jan had said it would be. At the same time, I built a [solid state HF receiver](#)

using various new and unusual techniques such as a Tayloe switching mixer, Huff & Puff stabilised VFO and polyphase audio phase shift network for unwanted sideband cancellation. My first ever QSO was on 25'th March 2002. Over the next few years I made a number of modifications to the transmitter, and it remained my ONLY transmitter for over three and a half years! During this time I made over 550 QSO's, many of which were long ragchews lasting an hour or two. The little ECL82 valve has served well!



Original version:

The first version was built from a [Jan Axing design](#) - a 2.560 MHz QRP calling frequency circuit that was published in the [QRP Journal](#) by [Jan Wuestens](#).
[Read more...](#)

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Fig 1. This CW transmitter was with LFR 4070 for about 25 years. It was modified to allow 1000 W output for 1.2 miles. The ATU



Modification of the CW transmitter for 1.2 miles. The ATU (Antenna Tuning Unit) was added to allow the transmitter to operate on my frequency, I had to just wait. I could hear stations on the 3.558



GA2KX received the CW transmitter on the 15th of October 2010. He was 50 years old at the time. He was interested in building CW transmitters and was looking for a project. He found the CW transmitter on the internet and bought it for \$100. He was able to build it with getting him interested in



30m/20m Modification. This added 30m and 20m amateur band capability to the transmitter. Yet more

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DL9EBA Ar like me, he was using [English text](#) [ads](#) [ion](#) -valve tra



From [G0UPL](#) CW valve [E6100](#) transmitter (about the [E6100](#) valve with [a](#) [used](#) [a](#) [100](#) [Hz](#) [mech](#) [filter](#) [40](#) [m](#) [dr](#) [The](#)

Another Sound Clip of my TX!

Hans-Peter DL9EBA kindly sent me this recording he made. You will hear 30 seconds of my one-valve CW transmitter in operation from my QTH (near London, England), during an 80m CW QSO on 30-Nov-02 with Rene ON4KAR (in Mettet, Belgium). Both stations reported 579 and were using 5W QRP power, G0UPL to a longwire antenna and ON4KAR to a G5RV. The recording from Hans-Peter's QTH in Rheinhausen, Germany was made using the 100Hz mechanical filter of his EKD Receiver. There is some QRM from an SSB USB station on QRG, this allocation is shared with other services at times, in this case most probably Danish fishermen. The preceding QSO to this one was with Hans-Peter DL9EBA, our second QSO (see his rig above).

This recording can be [downloaded in MP3 format by clicking here](#) to visit the web page of Mike Andrews W5EGO. Mike kindly offered to host the files since I have limited space on this server and in any case it does not allow me to host MP3 files. Thanks Mike! Be sure to take a look around the rest of [Mike's interesting website](#)