

Note 12:

KM3000 open squelch for Packet or normal version

Background

The KM3000 VHF 2M radios sold by TVRG were originally used in remote locations as data radios.

The radios come in two versions, one with a Green PCB and the other with a Yellow PCB. To the user this does not normally matter. However, this modification only applies to those radios with Yellow PCB.

Squelch level

As standard with a lot of PMR radio equipment there is no user adjustable squelch control fitted to the KM3000. Manufacturers pre-set a level that will cause the squelch to reliably open/close without causing the squelch to keep opening. In normal use as a voice radio this is found to work well and be a “reasonable” level.

Packet Radio

All current 2023 version radios come complete with the four packet frequencies and APRS channel together with simplex and repeater frequencies pre-programmed into the radio for you.

We understand from Packet Radio users it is sometimes desirable to have the squelch fully open all the time. This may avoid any issues with certain makes of radios, due to the speed of the squelch action, causing the first part of the data packet to be missed requiring the data packet to be resent.

Disabling the squelch for packet use on the radio is down to the choice of the operator and may not be essential depending how you are interfacing to the radio.

For Packet radio use, TVRG can supply to special order KM3000 Yellow PCB radios with the squelch disabled internally should you wish. This hardware modification means the radio will be supplied with the squelch setting wide open. However, it should be noted that if the radio should be used as well for voice, the squelch will not close making monitoring difficult and noisy unless CTCSS is being used on receive as with repeaters.

Note: This hardware modification only works with the “Yellow PCB” KM3000 radios and cannot be done to the Green PCB version radios.

If you would like to purchase a radio from TVRG and would like it supplied with open squelch please could you state this in your email at the point of ordering by saying “Open squelch for Packet Radio”.

This will then help us to get the correct radio sent out to you.

Note: If you already have a yellow PCB radio and would like to carry this modification out yourself then go to the website www.tvrg.org.uk and see (Note 8_ KM3000 yellow modify for open squelch packet operation). We can also supply details how to modify the radio back to having fixed squelch see (NOTE 6_ KM3000 squelch setting yellow boards) should you wish to do this at a later date.

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TVRG 2023