



MILWAUKEE RADIO AMATEURS' CLUB

MRAC FUSION/WIRES-X Usage Guidelines

The W9RH repeater is a Yaesu System Fusion DR-2X with Automatic Mode Select (AMS). AMS is enabled on our repeater which allows for FM and C4FM transmissions based on the mode of the received signal. We consider this a shared use repeater by both modes.

When using the digital voice mode, please consult the Repeater Guidelines regarding respect and courtesy by all Club members and our guests.

Since C4FM receivers in the digital-only mode will not sense an FM mode transmission, listening for FM activity is required before making your first digital transmission to avoid disruption of an existing QSO.

We have established the following guidelines for digital communications on the W9RH repeater to assure a pleasurable experience by all.

Step 1. USING C4FM ON THE REPEATER

Be respectful towards existing QSOs. Before making any digital transmission...

- monitor the repeater in AMS or FM mode for a full minute to determine if a QSO is in progress
- after 60 seconds of monitoring, key your mic and ask "is this repeater in use?" along with your call sign, in FM mode
- assuming the repeater is not in use, proceed with your C4FM transmission
- when in a QSO, please take long pauses (2-3 seconds) between transmissions, and take a break every 30 minutes to allow others, FM or C4FM, to use the repeater

Step 2. ENGAGING WIRES-X...

Before engaging WIRES-X...

- do all of Step 1
- assuming the repeater is not in use, proceed to engaging WIRES-X

Step 3. ENGAGING ROOMS

W9RH room #43588 is enabled as a default.



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Engaging an outside room is a limited-use privilege with restrictions. We have implemented a 30-minute time-out timer on any outside room not in active use. After that time, the W9RH Room will be re-engaged.

- if you find an outside room is already connected prior to your desired use, another operator is likely engaging that room. Feel free to join that QSO. If after 30 minutes there has been no local activity, it will revert to the W9RH Room

We recommend limiting active usage (participating in a QSO) to no more than 60 minutes. Passive usage (listening) is limited to no more than 30 minutes.*

- do not recycle an outside room to reset the timer. Doing so monopolizes the repeater which is discourteous to other Club members and guests
- non-club Nets are subject to the 30-minute time-out timer unless there is active local participation, with exceptions noted below *

Step 4. DISENGAGING ROOMS

Return the node to W9RH room #43588 when you have discontinued active use of an outside Room.

- all WIRES-X users are **EXPECTED** to end their WIRES-X session by selecting # on their keypad to disengage. Please assure you have completed this before moving on

* Note: the QSO time limit is set to provide fair access to all club members, including FM users, especially if no local traffic occurs while in other WIRES-X Rooms. See exceptions below.

Exceptions to the above guidelines:

- the SE Fusion Net meets on Saturdays at 7:00 pm local time and takes precedence of FM and other C4FM activities
- the MNWIS Net meets via WIRES-X on Mondays at 7:30 pm local time and takes precedence
- the MNWIS Saturday Net meets via WIRES-X on Saturdays at 8:00 pm local time and takes precedence
- the Friday Night 2 Meter Net meets on Fridays at 9:00 pm and takes precedence
- the Rookie Net meets on Tuesdays at 8:00 pm and takes precedence
- any other Club or Member activity deemed necessary by the MRAC Control Ops or Board of Directors may take precedence without advance notice. Such interruption to normal operation may be noted on our website or Facebook Group Page.



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