Beacon Mode

You can put message 1 in auto-repeat or beacon mode by:

1) Turn off the power.
2) Press and hold down the message 2 key.
3) Turn the power back on and then release the message 2 key.

Once the message 1 key is pressed, message 1 will continuously repeat until a paddle key is touched. At that point it will operate as a normal keyer. Messages 2-4 operate normally. Pressing the message 1 key will return it to Beacon Mode.

Tune

You can place the XT-4 in a key down state for tuning with the following procedure:

1) Press and hold the REC button.
2) Press the 2 button. The keyer will now be in the tune mode.
3) Touch either paddle key to exit tune mode.

Warranty Information

Unified Microsystems warrants the components workmanship of the XT-4 CW Memory Keyer for a period of 1 year from the date of purchase. A copy of the receipt must be included with any units returned for warranty repairs.

Unified Microsystems will, at its option, repair or replace defective units returned during the warranty period.

Unified Microsystems reserves the right to change specifications of the XT-4 at any time without notice.

Unified Microsystems
PO Box 133
Slinger, WI 53086

www.unifiedmicro.com

UM Unified Microsystems

XT-4 CW Memory Keyer

User's Manual
Revision 1.07

Unified Microsystems
PO Box 133
Slinger, WI 53086
www.unifiedmicro.com

Specifications

Battery: 9 volt alkaline
CW speed: Approximately 5-45 WPM
Memories: 4, approximately 110 Morse characters each
Output keying: Positive Keying only, RCA phono jack output
Paddle input: 1/8' (3.5mm) stereo jack input

Set UP

1) Wire up your paddle with shielded cable with two conductors. The XT-4 uses a 1/8" stereo plug. The shield wire is ground. The tip of the connector is for the dit key and the center ring is for the dah key.
2) Wire up a cable to the CW input of your transmitter. Use shielded cable with an RCA phono type connector for the XT-4 end and a connector compatible with your transmitter on the other end.
3) Install a standard 9V alkaline battery in the battery compartment.

Note: The XT-4 is designed to work with solid state positive keyed radios only! Damage can occur to the XT-4 and/or your transmitter if it is used improperly!

If you are unsure of your transmitter type, plug the CW cable into the transmitter but leave the other end free. Measure the voltage across the other end of the cable. Ground is the outer shell, and the inner pin is positive. The voltage should measure +5V to +12V. If the voltage is negative, or is more than 24V, do not use the XT-4 keyer with your radio.

ON/OFF/Speed Control

The speed control knob is a combined ON/OFF switch and speed control. Turn the knob fully counter-clockwise to turn the unit off when not in use. This will preserve battery life.

Turning the knob clockwise will increase the CW sending speed. The speed ranges from about 5 WPM to 45 WPM.

The XT-4 has a special power save mode to conserve battery power if you forget to turn the power off. After about 30 minutes of inactivity, the XT-4 goes into power save. The LED will briefly flash every 6 seconds to remind you to turn it off. Pressing any button or the paddle will bring the XT-4 back to normal operation.

REC and MESSAGE 1-4 Buttons

Pressing Message Buttons 1-4 will play back the corresponding pre-recorded message. The message will be played until it is complete. Pressing either the DIT or DAH key paddles will cancel the rest of the recorded message.

To record a message:

1) Press the REC button. The LED will blink rapidly.
2) Press the MESSAGE Button (1, 2, 3, or 4) that you wish to record. The LED will come on without blinking.
3) Start sending the message you wish to record with the paddle. The XT -4 will not begin recording until the first dit or dah is sent.
4) Press the REC Button to stop recording. The LED will go out. Press the REC board as soon as possible after you finish sending the message. This will minimize recording dead time at the end of your message.

Message Recording Notes:

1) The message will be preserved even if you turn off the power.
2) If you accidentally press the REC button and don't want to record a message, tap the DIT or DAH paddles *before* pressing a MESSAGE BUTTON. This will cancel the record, and the LED will go out.
3) Each message buffer will hold approximately 100-110 Morse characters. You can combine messages 1-2 or 3-4 together. Simply start recording message 1 or 3, and it will continue into the next message buffer if it is too long to fit in the first buffer.

Paddle Reverse

You should wire up your paddle so that the dit and dah keys operate the way you are used to. You can temporarily reverse the paddle keys for other operators with the following procedure.
1) Turn off the power.
2) Press and hold down the message 1 key.
3) Turn the power back on.
4) The paddle keys will be reversed as long as power is applied.