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## FoxView: An APRS Stand-Alone LCD Viewer using PIC16F628A & MX614

### Menu Settings for FoxView APRS Viewer:

The Set/Reset & Resume mentioned below are S1 & S2 on Foxview

#### Set Rating [+ Position sleep, Timer ON]

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Note: The endorsements from A) G) refer to the respective Parameters in "Set Names & Rng" (see section below).

- 1) "DX" - Suspension rx spot Dx Cluster - ON or OFF.  
If set to ON enables the suspension when decrypting Received a spot that starts with "DX" from the network Packet Cluster.
  
- 2) "RA2" - Release RA2 (pin 1) ON suspension during rx - ON or OFF  
If set to ON FoxView maintains the output RA2 the speaker /Buzzer ON (+5 V) during the suspension automatic decoding.
  
- 3) "Beep" - Issuance sound for each package - ON or OFF  
When the value is ON, per package displayed are generated The beep sound at speaker optional. Setting off the beep Are generated only when decoding automatically suspended And the pressure of the two buttons "Position" and "Stop / Resume".
  
- 4) "SrcCall" - Suspension rx call for Origin - ON or OFF  
If set to ON enables the suspension when decrypting Received a packet originated from the name set in A). The position forwarded by that name is also used to set Coordinates of the point of reference (waypoint) if the parameter 10 is ON.

- 5) "DstCall" - Suspension rx to call Destination - ON or OFF  
If set to ON enables the suspension when decrypting Pkt received a call with target set equal to that in B).
  
- 6) "Msg" - Suspension rx Message for the name C) - ON or OFF  
If set to ON enables the suspension when decrypting having received a message addressed to the call set C).
  
- 7) "Object" - Suspension rx Item aprs - ON or OFF  
If set ON enables the suspension when decrypting Received an object or item aprs equal to that set in D).
  
- 8) "MicE" - Suspension rx package for Mic-Encoder - ON or OFF  
If set ON enables the suspension when decrypting Received a package Mic-E type the same as that set in E).
  
- 9) "Displ"-Enabling coordinated display stations-ON or OFF  
If set to ON will appear coordinates received APRS stations if OFF displays the coordinates Make room for the rest of the package. The distance and direction from Reference point (see parameter 10) are still displayed.
  
- 10) "-> POS <-" - Enabling receipt waypoint coordinates - ON or OFF  
  
If set to ON coordinates transmitted by name set VA) will be stored as a reference point for calculating Distance / azimuth received from other stations. When the coordinates Stores generates a beep and see the written "-> POS <-" on the second line.
  
- 11) "Rng / Al" - Enabling suspension so close - ON or OFF  
  
If set enables ON how close suspension for packages That transmit the coordinates in Mic-E (mobile stations). Also, if set to ON lets you change the value in G) ie The distance from a reference point (WayPoint) below the Suspend which mode-On-Packet activates the suspension rx.
  
- 12) "FixAlm" - Suspension proximity to fixed stations - ON or OFF  
  
If set ON enables the suspension proximity to the Packages that transmit the coordinates NOT in Mic-E. This parameter takes effect when the previous param. 11 is set to ON.
  
- 13) "Timer" - length of the suspension decoding - second from 0 to 255.

When decoding is suspended by pressing the button "Stop / Resume" or automatically, this parameter determines the time Expected second timer software before resuming decoding Package.

When the timer is ON and is suspending decoding, the first character. The first and second row of the display will flash alternately. If setting the value 0 timer is disabled, and Resume decoding package will need to press the Button "Stop / Resume". With the timer disabled and when decoding Adjourned the first character of only the first line of the display will flash.

### **Set Names & Wpt [+ Position sleep, Timer OFF]**

A) "SrcCall" Call of origin for suspension rx - 6 + characters SSID.

When you received any package ax25 originated from a call Equal to that set, is suspended decoding. Set the SSID (from 0 to 15, 0 = no SSID) following the call.

This parameter can be modified and appears only if the parameter 4 SetUp in suspensions (see above) was set ON.

The position forwarded by that name is also used to set Coordinates of the point of reference (waypoint) if the parameter 10 is ON.

B) "DstCall" Call destination for suspension rx - 6 + characters SSID.

Usually, packages are aprs call Target APRS.

When you received any ax25 package with a call Destination equal to that set, is suspended decoding.

Set the SSID (from 0 to 15, 0 = no SSID) following the call.

This parameter can be modified and appears only if the parameter in 5 Set Ratingi (see above) was set ON.

C) "Msg" Addressee message for suspension rx - from 0 to 9 characters Included? "

To pause when decoding received a standard message Aprs as having the recipient name set.

The call can be up to 9 characters including the SSID, and you can Set only a few characters making sure that the suspension Is active with any sequence of characters after that Specified.

For this set of the "arrow to the left" at the end

The release, so the ending of the name.

Also, a "?" Means "any nature" in that position.

Examples:

Setting BLN will trigger a suspension when decoding

Received any bulletin as BLN1 or BLN3TEST, while setting BLN? tide decoding will hold with BLN1tide, BLN2tide, etc..

To ensure that the suspension is activated for decrypting Any message aprs set the empty string. This parameter can be modified and appears only if the parameter in 6 Set Ratingi (see above) was set ON.

D) "Object" Object Name aprs for suspension rx - from 0 to 9 characters Included? "

To pause when decoding received an object or item Aprs whose name the string set. Like the parameter C ( "Msg") setting less than 9 Font Suspension is activated with any sequence of characters after That specified, and "?" Means "any character."

To ensure that the suspension is turned decrypting for any item aprs set the empty string. This parameter can be modified and appears only if the parameter 7 Set in Ratingi (see above) was set ON.

E) "MicE" type package Mic-E for suspension rx And 'can enable decoding of the Suspension when it arrives. A specific package Mic-E or all packages Mic-E. The packages kind Mic-E are typically transmitted from stations Furniture (such as a TH-D7/700 or TinyTrack).

This parameter can be modified and appears only if the parameter 8 Set in Ratingi (see above) was set ON.

F) "Rng / AI": Maximum distance viewable (Range dist) – 255/25.5/2.55 km.

This sets the maximum distance from the reference point (WayPoint) viewable and usable for the suspension proximity.

And 'can set the maximum distances 3 following:

255Km distance range: 0-255 km (0 decimal digits)

25.5Km distance range: 0 - 25.5 Km (1 decimal)

2.55Km Range range: 0- 2.55 km (2 decimal digits)

G) Setting distance from the WayPoint for sosp. Proximity – from 0 to 255 km.

Only if the SetUp parameter No suspensions 11 has been set ON, on the same line F) will be asked to set the distance in Km below which will trigger a suspension proximity.

This distance can be set within the range selected F). Setting 0 suspension proximity is still disabled.

If the suspension is active proximity, a mobile station aprs (Or even if the fixed parameter in 12 suspensions is set SetUp ON), which is at a distance less than the value WayPoint Selected, will generate the suspension of decoding.

## Notes:

- \*\*\* In the Display-on-Packet when they received a package that no Meet the criteria set, the first character of the second row Display is stressed and flashes to indicate the state of "Stand-by" Peek\_SVW. If this situation goes the way Suspend-On-Pkt that flash remains (although not the first character)  
And press the delete button Stop / Resume.
- \*\*\* For packages sent by third parties (symbol ")") ways Display Pkt-On-and-On-Suspend Pkt operate only on parameters C) and D) The SetUp "Names & Rng" (see above).  
The third-party packages that do not contain beacons Posit Lat / Lon) Status Text or appear as received.
- \*\*\* The suspension has been operating in the vicinity ONLY way Suspend-On-Packet.
- \*\*\* The suspension for packages mic-and has been active in both ways if Has selected all types of packages mic-in ( "All" parameter And SetUp Names & Wpt), and is active in the only way Suspend-On-Packet  
If you selected a specific type mic-in (eg Emergency).
- \*\*\* To enable storage coordinates received from SrcCall (A parameter) must be satisfied the following conditions:
  - The parameter 10 (-> POS <-) must be set to ON.
  - The name SrcCall (parameter A) is set and send coordinates Valid, in normal or mic-in format.
  - If you turn on the way Suspend-on-4 Pkt the parameter must be turned ON.

## Default Settings

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The defaults are below.

Latitude and Longitude: 00 ° 00.00 'N 00 ° 00.00' E

### Set Names & Rng:

- A) - Call Origin: NOCALL - no SSID (0)
- B) - Call Destination: APEWX - no SSID (0)
- C) - Recipient message: BLN? TIDE
- D) - Object Name aprs: EARTHQUAKE
- E) - Type message Mic-E: Emergency
- F) - Range Distance: 255Km (0-255Km)
- G) - Distance susp. Proximity: 10Km

Set Rating:

- 1) - "DX": ON
- 2) - "RA2" OFF
- 3) - "Beep": ON
- 4) - "SrcCall": ON
- 5) - "DstCall" OFF
- 6) - "Object": ON
- 7) - "Msg": ON
- 8) - "Mic-E": ON
- 9) - "Displ" OFF
- 10) - -> POS <- "OFF
- 11) - "Rng / AI ": ON
- 12) - "FixAlm" OFF
- 13) - "Timer" (suspension rx): 15 seconds

Translated from Italian to English by a friend!!

Please visit project page at: <http://www.foxdelta.com>