

AR-DV1/AR-DV10 TETRA GSSI Related Commands

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Notes: The TETRA GSSI user group filtering is an optional "PRO" feature. To activate this "PRO" feature, users have to purchase an activation key at: <https://www.aordirect.jp/> or via an official AOR distributor.

Throughout this document, space between two characters is printed as □.

[Command list]

TK□KEY	TETRA-GSSI function activation key settings/view
TK□STR	TETRA GSSI start
TK□STP	TETRA GSSI end (and go to VFO mode)
TK□FAV	Go to the bookmarks screen
TK□GSS	Go to the GSSI screen
TK□SNG	Toggle between SINGLE and MULTI modes
TK□HOM	Home frequency set/view
TK□FAA	View the bookmarks
TK□FAX	Add to bookmarks
TK□FAQ	Remove from bookmarks
TK□GSA	View the GSSI list
TK□GSX	Add to the GSSI list
TK□GSQ	Remove from the GSSI list

[Detailed description for each command]

TK KEY TETRA-GSSI function activation key settings/view

Configuration format:	TK□KEYnnnnnnnnnnnnnn<CR> (Normal response without returning a response value)
Argument:	Nnnnnnnnnnnnnnn: Decimal 15-digit activation key
Read format:	TK□KEY<CR>
Response format:	TK□KEYnnnnnnnnnnnnnn□<CR><LF> (Response value is the same as configuration format)
Result code:	20... Set up or read successfully. 30...(configuration only) SK command not sent right before. (Configuration only) Failed to write to memory.
Supplement:	SK<CR> must be sent right before this command. Important: Right after entering the activation key by command, it is not yet registered into the receiver memory. For permanent registration, following procedure is necessary: For AR-DV1: Power off the receiver, remove the DC plug, plug it in again and start the receiver. For AR-DV10: Switch the receiver off, remove the battery, insert the battery again and start the receiver.

	If you get the result code 30 even though the SK command has been sent right before, it is likely the storage area has exceeded the number of rewrites, which is 100,000 times. Brute forcing the activation key process is not covered by the warranty.
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TK STR TETRA-GSSI start

Configuration format:	TK□STR<CR> (Normal response without returning a response value)
Result code:	20... Set up successfully. 30...GSSI function is not activated. (AR-DV1) Can't start because not in VFO and T-TC modes. 40...Parameter format error
Supplement:	AR-DV1: You must be in VFO mode and T-TC modes.. AR-DV1: When the GSSI function is in operation, memory scan or reception mode change commands will return an error.

TK STP TETRA GSSI end (and go to VFO mode)

Configuration format:	TK□STP<CR> (normal response without returning a response value)
Result code:	20... Set up successfully. 30... GSSI function is not activated. (AR-DV1) GSSI function is not in operation. 40... Parameter format error
Supplement:	Exit GSSI function and go into VFO mode. Whereas with AR-DV10 it is possible to switch directly to another mode by command such as "MS", AR-DV1 needs first to have the GSSI function terminated with TK□STP.

TK FAV Go to the bookmarks screen

Configuration format:	TK□FAV<CR> (normal response without returning a response value)
Result code:	20... Set up successfully. 30... GSSI function is not activated. (AR-DV1) GSSI function is not in operation. 40... Parameter format error
Supplement:	

TK GSS Go to the GSSI screen

Configuration format:	TK□GS<CR> (normal response without returning a response value)
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Result code:	20... Set up successfully. 30... GSSI function is not activated. (AR-DV1) GSSI function is not in operation. 40... Parameter format error
Supplement:	

TK SNG Toggle between SINGLE and MULTI modes

Configuration format:	TK□SNGn<CR> (normal response without returning a response value)
Argument:	n 0: Multi 1:Single
Read format	TK□SNG<CR>
Response format:	TK□SNGn□<CR><LF> (Response value is the same as setting format)
Result code:	20... Set up successfully. 30... GSSI function is not activated. (AR-DV1) GSSI function is not in operation. 40... Parameter format error 50...(settings only) arguments are out of range.
Supplement:	Single: Demodulates only the selected ID. Multi: Demodulates all active IDs in the list.

TK HOM Home frequency set/view

Configuration format:	(AR-DV10 only) TK□HOMnnnn.nnnnn<CR> (normal response without returning a response value)
Argument:	nnnn.nnnnn 0.1 to1300.0 (Home frequency, unit MHz)
Read format	TK□HOM<CR>
Response format:	TK□HOMnnnn.nnnnn□<CR><LF> (Response value is the same as configuration format)
Result code:	20... Set up successfully. 30... GSSI function is not activated. 40... Format error. No decimal point. 50...(Settings only) Arguments are out of range.
Supplement:	AR-DV1: TK HOM not required since it does automatically find the home frequency.

TK FAA View the bookmarks

Read format	TK□FAA<CR>
Response format:	TK□FAAn□IDdddddddd□Ll□TTssssssssss□<CR><LF> (List Data Body)

	TK□FAAnn□---□<CR><LF> (last list data) Nn: 00-50 Memory number Dddddddddd: Group ID (GSSI) M: 0:Mute (no demodulation) 1: Demodulate ssssssssss: Name of the group ID in the bookmarks list.
Result code:	20... Was able to read successfully. The last line of list is output. 21... Reading normally. List is being output. (More is pending) 30... GSSI function is not activated. 40... Format error. No decimal point.
Supplement:	Output the whole list. (You can't output just one item.)

TK Fax Add to bookmarks

Setting format	TK□FAXnn□IDddddddddd□LIm□TTTssssssssss<CR> (normal response without returning a response value)
Argument:	nn: Memory number is required as a format, but the value is ignored. ddddddddd: Group ID (GSSI) m: 0:Mute (no demodulation) 1: Demodulate ssssssssss: Name of the group ID in the bookmarks list
Result code:	20... Set up successfully. 30... GSSI function is not activated. 40... Parameter format error. There is no memory number. 50... Arguments out of range.
Supplement:	If the group ID was in the list, modify the registration for that ID to a set value. If it was not in the list, add to the list.

TK FAQ Remove from bookmarks

Configuration format:	TK□FAQnn<CR> (delete one item of the list) (normal response without returning a response value) TK□FAQ%<CR> (delete the entire list)
Argument:	Nn: 00 through 49 memory numbers
Result code:	20... Successful deletion. 30... GSSI function is not activated. 40... Parameter format error. No argument nor %. 50... Arguments out of range.
Supplement:	

TK GSA View the GSSI list

Read format	TK□GSA<CR>
Response format:	TK□GSAnnn□IDdddddddddd□LIm□<CR><LF> (List Data Body) TK□GSAnnn□---□<CR><LF> (Last list data) nnn: 000 to 200 Memory number (--- number in the GSSI list is the number of items in the GSSI list) dddddddddd: Group ID (GSSI) M: 0:Mute (no demodulation) 1: Demodulate
Result code:	20... Was able to read it successfully. The last line of the list is output. 21... Reading normally. List output. (There is more to follow) 30... GSSI function is not activated. 40... Parameter format error.
Supplement:	Output the whole list. You can't output just one item.

TK GSX Add to the GSSI list

Setting format	TK□GSXnnn□IDdddddddddd□LIm<CR> (normal response without returning a response value)
Argument:	nnn: Memory number is required as a format, but the value is ignored. dddddddddd: Group ID (GSSI) M: 0:Mute (no demodulation) 1: Demodulation
Result code:	20... Set up successfully. 30... GSSI function is not activated. 40... Parameter format error. There is no memory number. 50... Arguments out of range.
Supplement:	If the group ID was in the list, modify the registration for that ID to a set value. If it was not in the list, add to the list.

TK GSQ Remove from the GSSI list

Configuration format:	TK□GSQnnn<CR> (Delete 1 item) (normal response without returning a response value) TK□GSQ%<CR> (delete all items)
Argument:	nnn: 000 through 199 memory numbers
Result code:	20... Successful deletion. 30... GSSI function is not activated. 40... Parameter format error. No argument nor %. 50... Arguments out of range.
Supplement:	