

ACT-800 User Manual

ANNCOM Co., Ltd.

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1. How to enter commands

- Pick up the handset on your pots.
- Press Entry code : '##XX' ('XX' is 2 digit code)
: Prefix code, "##", makes a terminal ready to receive commands. A following two digits are command.
- Actually, Each commands are a sequence digits to get to a specific function like as a following menu structure.
Ex)
'01' – SIO : You just choosed Menu '0' and Submenu Menu '1' linked to SIO.
'02' – Emergency : You just choosed Menu '0' and Submenu Menu '2' linked Emergency menu.

Note : Whenever you set the values of a Emergency, a hotline, a mirroring, a new code, a outgoing restrict, a reset phone, a voice privacy, A lockcode prompt sound which requests you to enter a lock code will be heard immediately.

Ex)

##03 → lock code prompt sound → lock code → you can set Emergency number

Note : a FWT will go to idle state automatically when a user choose wrongly a parameter or a function in a menu linked a command..

Menu Structure	
0. Hidden Menu	1. SIO
	2. Emergency
	3. HOT Line
	4. Mirroring (will be used it in a factory)
	5. A Key
	6. Mater Clear (will be used it in a factory)
	7. Test Call (will be used it in a Lab)
1. Ring / Sound	1. Ring Type
	2. Volume
	3. DTMF
	4. 1Min Alert
	5. Svc Alert
2.Tools	1. Caller ID
	2. Dial Tone
	3. TTY Mode
3. Time	1. Alarm
	2. Auto Send Time

	3. Flash Time
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4. Setting	1. New Code
	2. Restrict outgoing
	3. Reset Phone
	4. Voice Privacy
	5. Auto gain control
5. Data Mode	1. Voice Call Mode
	2. FAX Rx mode(use fax module)
	3. ASYNC Data Rx mode(use data module)
	4. PC FAX Rx mode
	5. PC ASYNC Data Rx mode
	6. FAX Tx mode(use fax module)
	7. ASYNC Data Tx mode(use data module)
	8. FAX Type Setting
	9. FAX only

2. Hidden Menu

SIO	'##01' + [Functions]
- You can change SIO configuration for your needs. - As belows, SIO configuration has a DM/DS and port rate information. - You can choose one of configurations listed at below table.. - After then, press * to make done. - Otherwise rather than pressing * , the values will be back originally. That means "Cancel" for what you did. <Configuration list> 1 UART1 115,200 bps Serial DM to PC 2 UART1 9,600 bps Serial DS to PC 3 UART1 19,200 bps Serial DS to PC 4 UART1 38,400 bps Serial DS to PC 5 UART1 115,200 bps Serial DS to PC 6 UART1 19,200 bps DS to FAX 7 FAX 19,200 bps to PC 8 UART2 38,400 bps Serial DM to PC 9 USB DS <Ex> ##01 + 1 + * : To use UART1 for DM with 115,200 bps rate.	

Emergency	'##02' + [Index]
- You can set upto 3 Emergency numbers which has up to 16 digits. - After ##02, Following number is a [index] from 1 to 3 associated each emergency number. - After you enter a index, A lockcode prompt sound will be heard immediately. - At this time, You can enter lock code. (a default lock code is "0000" which can be change for your need) - After you heard confirmation tone for a right lock code, You can set one of Emergency numbers.. - And then press * to store it in a memory for preserving it from power-on/off cycle. - If you press '#' instead of * , What you did will be released.. Ex) ##021 → lockcode prompt sound → lock code → 911 → * – Sets and store a emergency number #1 as 911	

Hotline	'##03'
- In the Hotline Menu, you can set hotline number which will be dialled automatically whenever you pick up handset. - Lockcode prompt sound follows a entering a command of "##03". - You can enter lock code. (a default lock code is "0000" which can be change for your need) - After you heard confirmation tone for a lock code , You can set a Hotline number.. - And then press * to store it in a memory for preserving it on power-on/off cycle. - If you press '#' instead of ' * ', it will be released. Ex) ##03 → enter lock code → 39533447 + * – Sets and store a hotline as 39533447.	

Mirroring (will be used in a factory)	'##04'
- In the Mirroring menu, you can backup/restore system configuration values of Terminal. - Lockcode prompt sound follows a entering a command of "##04". - You can enter lock code. (a default lock code is "0000" which can be change for your need) - After you heard confirmation tone for a lock code , You can press ' * ' for backing up and '#' for restoring a stored values. - if it is succeeded, a confirmation tone will be heard and after then, a terminal will be reset. Ex) ##04 → enter lock code → * – Performs backing up system values ##04 → enter lock code → '#' – Performs restoring system values	

A Key	'##05'
- In the A Key menu, you can set 26 digits A Key on FWT.. - A short go-ahead tone follows a entering a command of "##05". - Input A Key of 26 digits . - Pressing ' * ' will store A Key safely on FWT's memory.. - If the entered A key is valid, you can hear confirmation tone. Otherwise, you can not.. Ex) ##05 → 26 digits (20 digits + 6 digits checksum) → *	

Master Clear (will be used in a factory)	'##06' + [DS Baud Rate]				
- Before packing just a made product, In a factory, a phone has to makes changed value for testing to a default values . At this time, this commands make a FWT has default values predefined by a operator. a command of ' * ' or '#' has to follow "##06"for proper DS rate for your system configuration. This option is needed due to FAX usually supports 19,200 rate. - After done, the Terminal will be reset. <Master Clear Mode> <table border="1"> <tr> <td>*</td><td>Master clear to 115,200 DS Mode</td></tr> <tr> <td>#</td><td>Master clear to 19,200 DS Mode for a FAX</td></tr> </table> Ex) ##06 + ' * ' : Master clear with 115,200 option ##06 + '#' : Master clear with 19,200 option		*	Master clear to 115,200 DS Mode	#	Master clear to 19,200 DS Mode for a FAX
*	Master clear to 115,200 DS Mode				
#	Master clear to 19,200 DS Mode for a FAX				

Test Call (will be used in a lab like CDG2)	'##07' + [Option]		
Pressing ‘ * ’ needs for make completed.			
[Option]			
1	NEW 8K MARKOV	6	FULL TDSO
2	NEW 13K MARKOV	7	SO54 MARKOV
3	8K LOOP BACK	8	SO55 LOOP BACK
4	13K LOOP BACK	9	SORS2 MARKOV
5	SIMPLE TDSO	0	SORS2 MARKOV

Ex) ##07+1+ * : Test a call for New 8K MARKOV

3. Ring / Sound Menu

Ring Type	'##11' + [Ring type Index]
- In the Ring type menu, you can choose one of 9 ring types. - A ring type index is needed after ##11 and a ring type index has from 1 to 9 linked by a specific ring tone. At this moment, you can listen your choosed ring tone on your speaker or a handset of your POTS. If you choose zero,0, It will be canceled. - During playing a choosed ringtone, Pressing '*' is needed to make done. Also, choosed ring tone will be stored on a FWT's memory. If you press '#' instead of '*', it will be canceled. Ex) ##11+0: Canceled what you did. it will make a terminal idle. ##11+1 ☎ assigned ring tone ☎ * : Index 1's ring tone will be selected. ##11+9 ☎ assigned ring tone ☎ * : Index 9's ring tone will be selected. ##11+9 ☎ assigned ring tone ☎ # : Canceled what you did.	

Volume level	'##12'
- With this command, You can stay on a volume level menu until you press '0' to save a adjusted volume level. - During staying on a volume level menu, Whenever you press '*' key, A voice volume will be increased. When you press '#' key, A voice volume will be decreased. Also a volume level will be started again from a minimum level by a pressing '*' when last volume level reached maximum level. - When you meet your voice volume level, press '0' to save and make done. - If you want to cancel what you did, just press other key rather '0'.	

DTMF	DTMF '##13' + [DTMF Type]
- In the DTMF menu, you can select DTMF tone length. - Press '*' to make it long, press '#' to make it short. Ex) ##13 + * : To make DTMF tone long ##13 + # : To make DTMF tone short	

1 Min Alert	'##14' + [On/Off]
- you can set 1 Min alert on or off. If this option set on, An alert tone will be heard every 1 minute during a call. - To make this alert on, a pressing ' * ' key has to follow ##14. - To make this alert off, a pressing '#' key has to follow ##14. Ex) ##14 + * : to make a 1 min alert on ##14 + # : to make a 1 min alert off	

Service Alert	'##15' + [On/Off]
- You can set Service alert on or off. If this option set on, An alert tone will be heard whenever FWT lost a signal or is getting a network. - To make this alert on, a pressing ' * ' key has to follow ##15. - To make this alert off, a pressing '#' key has to follow ##15. Ex) ##15 + * : to make a service alert on ##15 + # : to make a service alert off	

4. Tools Menu

Caller ID	'##21' + [Caller ID type]
- You can select CID type for a caller id type of your POTS.(Default type is non cid) - There are 4 types of caller ID as belows. - When you choose one of them after entering ##21, press to make complete - Press '#' to cancel what you did. <Caller ID types> 1. BELLCORE 2. V.23 3. DTMF 4. None CID Ex) ##21 + 3 + : to set a caller id type as DTMF caller id. ##21 + 4 + : to make a displaying of a caller id off.	

Dial Tone	'##22' + [Dial tone Type]
- You can select a dial tone type for your country. - There are 6 types as belows. - At the end of the command, Press ' * ' to set. Press '#' to cancel. <Dial tone types> 1. Default 2. Latin America 3. East Europe 4. China / Siria 5. Nicaragua 6. India Ex) ##22 + 1 + * : to set a dial tone as a default dial tone. ##22 + 6 + * : to set a dial tone as an india dial tone.	

TTY Mode	'##23'
- You can set Full TTY mode. - Press ' * ' to set, Press '#' to release. Ex) ##23 + * : Set Full TTY mode on.	

5. Time Menu

Alarm	'##31' + [HHMM]
- You can set the alarm time. - After entering ##31, immediately short go-ahead tone will be heard. - Enter 4-digits for an alarm time like as 'HH-MM' of 24 hour type. - After entering an alarm time. press ' * ' to alarm on. - To turn an alarm off, Press '#' key after entering this command of ##31. Ex) ##31 + 1540 + * : to set an alarm time to PM 3 oclock 40 minute. . ##31 + # : to cancel predefined alarm time. (means turn an alarm off)	

Auto send time	'##32' + [Index of Time Table]																				
- You can set auto send time which is setting as 5 secs defaultly.. - Auto send time will be able to be set as from 1 sec to 10 secs according to a index as below.. - After entering a time index, press ' * ' to set. - Press '#' to cancel what you did, <Time table> <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td></tr><tr><td>1sec</td><td>2sec</td><td>3sec</td><td>4sec</td><td>5sec</td><td>6sec</td><td>7sec</td><td>8sec</td><td>9sec</td><td>10sec</td></tr></table> Ex) ##32 + 7 + * : to set an auto send time to 7 secs. . ##32 + 0 + * : to set an auto send time to 10 secs		1	2	3	4	5	6	7	8	9	0	1sec	2sec	3sec	4sec	5sec	6sec	7sec	8sec	9sec	10sec
1	2	3	4	5	6	7	8	9	0												
1sec	2sec	3sec	4sec	5sec	6sec	7sec	8sec	9sec	10sec												

Flash time	‘##33’
- To recognize a flash key of your POTS well, you can adjust this period time with an experimental results. - After entering ##33, a short go-ahead tone will be heard. - At this time, you can enter your flash time between 50 ms and 800 ms. - If you entered an excessive time lke more then 800 ms, What you did will be canceled with an alert tone. - To set an entered flash time, Press ‘ * ’ or press ‘#’ to cancel what you did. Ex) ##3 + 300 + * : to set a flash time to 300 ms	

6. Setting Menu

New Code	'##41'
- You can change a lock code which is being '0000' as default value. - After you enter a command of '##41', A lockcode prompt sound will be heard immediately. - At this time, You have to enter current lock code to get an authority to change a lock code. - Then, If the entered current lock code is right, a confirmation tone will be heard. - After then, You can try to enter new lock code. the process of an entering new lock code has two steps. First, you have to enter new lock code and press * key and second, you have to enter that lock code again to make a double check and press *. - If first code and second code was matched, a confirm tone will be heard. Otherwise, the codes are different. you should do all process again from begin.. - Press '#' to cancel what you did. Ex) Suppose a current lock code is '7777', user want to change this to '8888'. ##41 → a lock-code prompt sound → 7777 → a confirmation tone → 8888 → Press * → 8888 → Press * → a confirmation tone	

Restrict outgoing	'##42'
- You can restrict outgoing call to protect someone from call outgoing without your permit. - After you enter a command of '##42', A lockcode prompt sound will be heard immediately. - You can enter lock code. (a default lock code is "0000" which can be change for your need) - After you heard confirmation tone, You can set a restriction on by pressing *. - Press '#' to cancel what you did. Ex) Suppose a current lock code is '7777' ##42 → a lock-code prompt sound → 7777 → a confirmation tone → Press *	

Reset phone	'##43'
- You can reset this terminal to make a terminal values to the factory values. - After you enter a command of '##43', A lockcode prompt sound will be heard immediately. - You can enter lock code. (a default lock code is "0000" which can be change for your need) - After you heard confirmation tone, You can reset a terminal by pressing * and a FWT will be reset. - Press '#' to cancel what you did. Ex) Suppose a current lock code is '7777'. ##43 → a lock-code prompt sound → 7777 → a confirmation tone → Press *	

Voice privacy	'##44'
- You can set the option of Voice privacy to protect your voice from tapping But It is possible only an operator supports this feature. - After you enter a command of '##44' , A lockcode prompt sound will be heard immediately. - You can enter lock code. (a default lock code is "0000" which can be change for your need) - After you heard confirmation tone , You can change the option by doing follows. - Press ' * ' for changing a current value to 'Standard' option - Press '#' for changing a current value to 'Enhanced' option. NOTE: If you want to change Voice privacy's option on conversation, you press " 0 " for standard mode or " 1 " for enhanced mode. Ex) Suppose a current lock code '7777' ##44 a lock-code prompt sound → 7777 → a confirmation tone → Press '#' : Enhanced ##44 a lock-code prompt sound → 7777 → a confirmation tone → Press * : Standard	

Auto Gain Control	'##45'
- You can set AGC which is able to adjust volume level according to the order from BTS.. - After entering a command of ##45, - Press * to make it enable - Or press '#' to make it disable Ex) ##45 + * : Set AGC on ##45 + '#' : Set AGC off	

7. Data Mode Menu

- "TX" means "Transmitting" , "RX" means "Receiving"

Voice call mode	'##51'
- You can set a terminal mode to voice mode. - Press * to make completed - Or press '#' to cancel what you did. Ex) ##51 + * : Set a terminal mode to voice mode.	

FAX Rx mode(use FAX Module)		'##52'				
- Only In case that a terminal has a fax module currently, This command can affect the terminal. - You can choose one of two behaviors in FAX RX mode. < FAX RX mode > <table><tr><td>*</td><td>FAX RX mode will be set always until a user change other mode. We call this as FAX RX always mode for making it easy to say.</td></tr><tr><td>#</td><td>FAX RX mode will be change voice mode after a terminal receive FAX once. We call this as FAX RX once mode for making it easy to say.</td></tr></table> Ex) ##52 + : FAX RX always mode will be on ##52 + # : FAX RX once mode will be on			*	FAX RX mode will be set always until a user change other mode. We call this as FAX RX always mode for making it easy to say.	#	FAX RX mode will be change voice mode after a terminal receive FAX once. We call this as FAX RX once mode for making it easy to say.
*	FAX RX mode will be set always until a user change other mode. We call this as FAX RX always mode for making it easy to say.					
#	FAX RX mode will be change voice mode after a terminal receive FAX once. We call this as FAX RX once mode for making it easy to say.					

ASYNC Data Rx mode (use Data Module)		'##53'				
- Only In case that a terminal has a module currently, This command can affect the terminal.. - You can choose one of two behaviors in ASYNC Data RX mode < ASYNC Data receiving mode > <table><tr><td>*</td><td>ASYNC Data RX mode will be set always until a user change other mode. We call this as ASYNC Data RX always mode for making it easy to say</td></tr><tr><td>'#'</td><td>ASYNC Data RX mode will be change voice mode after a terminal receive ASYNC Data once. We call this as ASYNC Data RX once mode for making it easy to say.</td></tr></table> Ex) ##53 + * : ASYNC Data RX always mode will be on ##53 + # : ASYNC Data RX once mode will be on			*	ASYNC Data RX mode will be set always until a user change other mode. We call this as ASYNC Data RX always mode for making it easy to say	'#'	ASYNC Data RX mode will be change voice mode after a terminal receive ASYNC Data once. We call this as ASYNC Data RX once mode for making it easy to say.
*	ASYNC Data RX mode will be set always until a user change other mode. We call this as ASYNC Data RX always mode for making it easy to say					
'#'	ASYNC Data RX mode will be change voice mode after a terminal receive ASYNC Data once. We call this as ASYNC Data RX once mode for making it easy to say.					

PC FAX Rx Mode		'##54'
- This mode enables a user to send and receive a FAX with a computer without a Fax module and a Fax equipment. - You can choose one of two behaviors in PC FAX Rx Mode for a receiving a fax. < PC FAX Rx Mode >		
*	PC FAX Rx mode will be set always until a user change other mode. We call this as PC FAX Rx always mode for making it easy to say.	
#	PC FAX Rx mode will be change voice mode after a terminal receive FAX once. We call this as PC FAX Rx once mode for making it easy to say.	

Note: Without setting this, a user is able to send a FAX always. But when a user want to get a fax from air to PC, a user has to set this setting.

PC ASYNC Data Rx Mode		'##55'
- This mode enables a user to receive a Async Data with a computer without a Fax module. - You can choose one of two behaviors in PC ASYNC Data Rx Mode for a receiving a Async data. < PC FAX Rx Mode >		
*	PC ASYNC Data Rx Mode will be set always until a user change other mode. We call this as PC ASYNC Data Rx always mode for making it easy to say.	
'#'	PC ASYNC Data Rx Mode will be change voice mode after a terminal receive ASYNC Data once. We call this as PC ASYNC Data Rx once mode for making it easy to say.	

Note: Without setting this, a user is able to send a ASYNC Data always. But when a user want to get a ASYNC Data from air to PC, a user has to set this setting.

FAX TX Mode(use Fax Module)	'##56'				
- "TX" means "Transmit" - Only In case that a terminal has a fax module currently, This command can affect the terminal.. - After setting this, You can send a fax data through a FAX machine without prefix dialing always. - You can set and cancel this mode as a following table. < FAX TX Mode > <table><tr><td>*</td><td>FAX TX mode will be set</td></tr><tr><td>'##'</td><td>FAX TX mode will be canceled. A terminal mode will be back to a previous mode.</td></tr></table> Note: Without setting this, a user is able to send a FAX with Fax machine always with prefix dial number, #0 * , when you dial a specific number for a fax. After a sending fax, a terminal will be back to a previous mode. a example is here. Ex) Suppose you want to send a fax data to 12345678. Dial on a FAX : #0 * 12345678		*	FAX TX mode will be set	'##'	FAX TX mode will be canceled. A terminal mode will be back to a previous mode.
*	FAX TX mode will be set				
'##'	FAX TX mode will be canceled. A terminal mode will be back to a previous mode.				

ASYNC Data Tx Mode (use Data Module)	'##57'				
- Only In case that a terminal has a fax module currently, This command can affect the terminal. - You can set and cancel this mode as a following table. <ASYNC Data Tx mode> <table><tr><td>*</td><td>ASYNC Data Tx mode will be set</td></tr><tr><td>'#'</td><td>ASYNC Data Tx mode will be canceled. A terminal mode will be back to a previous mode.</td></tr></table> Note: Without setting this, a user is able to send a Async data always with prefix dial number, #8 * , when you dial a specific number for a Async data. After a sending Async data, a terminal will be back to a previous mode. a example is here. Ex) Suppose you want to send a async data to 12345678. Dial on PC or POS equipment: #8 * 12345678		*	ASYNC Data Tx mode will be set	'#'	ASYNC Data Tx mode will be canceled. A terminal mode will be back to a previous mode.
*	ASYNC Data Tx mode will be set				
'#'	ASYNC Data Tx mode will be canceled. A terminal mode will be back to a previous mode.				

FAX Type	'##58' + [Fax Type]				
- You can choose one of two fax types according to your service provider. - A.4 and A.7 came from IS707 standard. < FAX Type> <table> <tr> <td>*</td><td>FAX A.4. It usually be used at PC FAX</td></tr> <tr> <td>#</td><td>FAX A.7</td></tr> </table> Ex) ##58 * : To set a fax type to A.4 ##58# : To set a fax type to A.7		*	FAX A.4. It usually be used at PC FAX	#	FAX A.7
*	FAX A.4. It usually be used at PC FAX				
#	FAX A.7				

FAX Only	'##59'				
- Only In case that a terminal has a fax module currently, This command can affect the terminal. - Actually, this mode is included FAX Tx mode and FAX Rx mode. So, At receiving time or sending time, a user is able to send or receive a fax data freely without any command. - You can set and cancel this mode as a following table. <ASYNC Data Tx mode> <table> <tr> <td>*</td><td>FAX only mode will be set</td></tr> <tr> <td>#</td><td>FAX only mode will be canceled A terminal mode will be back to a previous mode.</td></tr> </table>		*	FAX only mode will be set	#	FAX only mode will be canceled A terminal mode will be back to a previous mode.
*	FAX only mode will be set				
#	FAX only mode will be canceled A terminal mode will be back to a previous mode.				

8. Phone Book

You can make a quick dial supported up to 99.

[Sequence to make it]

- pick up the handset.
- Press phone number.
- Press “ * * ”.
- Press address number.
- Press “ * * ”.
- Confirmation tone is heard.

Ex)

Suppose you want to make a quick dial of 1 memory address for 01032083343 no.

01032083343 → * * → 01 → * * → confirmation tone.

After this, Just pressing '1' for a around 1 sec will make a call to 01032083343 immediately.

Regulatory Information

FCC compliance Information

This device complies with part 15 of FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received.

Including interference that may cause undesired operation.

Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, Pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio Frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RF Exposure Guidelines: During transmitter operation, in order to meet RF Maximum Permissible Exposure Safety Guidelines, a minimum distance of 20cm shall be maintained between antenna and personnel.