

FX-200 & FX-300 Analog Call Director Comparison Chart

Main Features & Functions	FX-200	FX-300
<u>One Model for all ATAs (5v through 20v)</u>		✓
<u>No Separate Power Supply Needed</u>	✓	✓
<u>Local and Remote Programming</u>		✓
<u>Continuous Calling Feature</u>	✓	✓
<u>Transit Function with Two Stage Dialing</u>	✓	✓
<u>Transit Function with Call Forwarding</u>	✓	✓
<u>Transit On/Off Switch</u>	✓	✓
<u>Ports can be Independently Configured</u>	✓	✓
<u>Number of Rings Before Answer</u>	✓	✓
<u>PHONE Port (with switch functions, barge in protection, etc.)</u>		✓
<u>Answer Transfer, Conference, Operator Function</u>		✓
<u>Private User Group using CID Function</u>		✓
<u>Call Waiting</u>		✓
<u>Auto Busy Tone Detection and Auto Disconnect</u>		✓
<u>Remote Disconnect Command (#*)</u>		✓
Security Features		
<u>Programming Access Password</u> #1#[password]	✓	✓
<u>Transit Access Password</u>	✓	✓
<u>Continuous Calling Function Password</u> ## [password]	✓	✓
<u>Remote Disconnect Command Password</u> #* [password]		✓
<u>Maximum Call Duration</u>	✓	✓
<u>Dial Barring (Toll Number Blocking)</u>		✓
<u>Area Code Insertion (Toll Number Blocking)</u>		✓
Remote Key Commands		
<u>#1#</u>	✓	✓
<u>*#</u>	✓	✓
<u>##</u>	✓	✓
<u>#*</u>		✓
<u>*</u>		✓
PHONE Port Key Commands		
<u>#0</u>		✓
<u>#*</u>		✓
<u>Flash Key</u>		✓
<u>#9</u>		✓

Local and Remote Programming: You access the programming mode by calling into either port LINE 1 or LINE 2 ports with a touch-tone PHONE. You can also program the FX-300 from the handset attached to the PHONE port.

Continuous Calling Feature: After you have completed a call (either a Transit with Two Stage Dialing or Transit with Call Forwarding) you can make additional calls without hanging up. Just press ## from the remote handset keypad to generate a new dial tone. This function can be password protected.

Transit Function with Two Stage Dialing: A call to either port LINE 1 or LINE 2 will be allowed to transit to the other port after the set Number of Rings to the PHONE port. Once connected to the other port the caller will hear dial tone from the other port and be able to remotely dial the desired number. For example, when the FX-300 receives a call on the LINE 1 port from an attached ATA/Gateway, the FX-300 will auto answer the call, (after the set Number of Rings to the PHONE port) and redirect it to the telephone line or device connected to LINE 2 port. The caller will hear dial tone from the telephone line or device connected to the LINE 2 port and they can then make a call over this connection. This is commonly referred to as Transit Function with Two Stage Dialing.

Transit Function with Call Forwarding: As above a call to either port LINE 1 or LINE 2 will be allowed to transit to the other port after the set Number of Rings to the PHONE port but once connected to the other port the unit will auto dial the number set in the appropriate programming code. If no call forwarding number is set the FX-300 will default to Two Stage Dialing as described above.

Transit On/Off Switch: There is a soft switch to set the Transit Function for each port to On or Off. Note: you cannot set Transit Function to Off for both ports at the same time.

Ports can be Independently Configured: Most Port functions (such as Number of Rings, Transit Password, Call Forwarding, etc.) are available and independent to each LINE port. Each LINE port can have none, all or any combination of the various functions set at the same time

Number of Rings Before Answer: Each port can be set separately from 1-9 rings. The FX 300's integrated PHONE port will ring the set number of rings when there is an inbound LINE 1 or LINE 2 call.

PHONE Port: The new integrated PHONE port on the FX-300 enhances the device dramatically over the old FX-200. Many of the new features and functions are only possible due to the new integrated PHONE port and the setup of the device is simplified. The PHONE port can both make and receive calls over LINE 1 and LINE 2 ports. The PHONE port will by default engage LINE 2 port when the handset is taken off hook. To connect to LINE 1 press #0, to switch back to LINE 2 port press #0 again and so on. The PHONE port can also perform answer transfer and limited conferencing functions. (see #9 in the table below) There is also barge-in protection for PHONE ↔LINE 1 and PHONE ↔LINE 2 calls. However, if there is a transit call LINE 1 ↔LINE 2 in progress and the PHONE port handset is taken off hook, the user will be able to hear the conversation and disconnect the existing transit call by entering #*. Finally, the PHONE port operates independently of the other ports so LINE 1 and LINE 2 security settings (see below) will not affect calls placed from the PHONE port.

Answer Transfer, Conference and Operator Function: #9 Key Command is used to initiate the answer transfer and/or 3-way conferencing function when the PHONE port is already engaged with either LINE 1 or LINE 2.

- #9 only works from the Phone port.
- Pressing #9 does not put the existing call on hold but merely adds in the other port. Both existing parties will hear the dial tone from the other port. The Phone port user will then dial the new number out the other port to create a 3-way call or simply hang up and thus perform an answer transfer or operator assist dialing function.
- The ## key can be used to redial the number if the line is busy or a wrong number was dialed.

Private User Group using Caller ID (CID) Function: The FX-300 has the ability to recognize the CID on both inbound LINE 1 and LINE 2 calls. Moreover, it has the ability to automatically route calls for up to 15 separate numbers. There are different automatic routing options to choose from depending on your application needs. This function is used to set up a private user group, which has special access to use your VOIP and/or analog line. Note: There is only one Private User Group shared by both LINE 1 and LINE 2 ports. Finally, callers not in your private user group will ring the PHONE port as normal so no one outside your private user group will know you have any device installed on your lines. See the different automatic routing options below.

1. If calling number is in the private user group follow normal call flow except bypass Transit Passwords and Number of Rings settings.
2. If calling number is in the private user group follow normal call flow except bypass Transit Passwords, Number of Rings and Call Forwarding settings.
3. If calling number is in the private user group immediately connect to other port (LINE 1 or LINE 2) and give dial tone and do not apply any security settings/codes

Call Waiting: The PHONE port has barge in protection so if the PHONE port is engaged with LINE 1 or LINE 2 port a second call will not barge into the existing conversation and vice versa. However, when the PHONE port is engaged with LINE 1 or LINE 2 and you have a second call on the engaged port you will hear the normal call waiting tones (if you have call waiting service on your line). You can press the flash key to switch to the second call. The first call will be put on hold. Press the flash key again to switch back to the first call.

Auto Busy Tone Detection: The Busy Tone Tuning function/procedure on the FX-200 has been replaced with the ability to auto detect the busy tone.

Programming Access Password #1# [password]: There is a Programming Access Password to restrict access to the Programming Features.

Transit Access Password: There is a Transit Access Password for LINE 1 and LINE 2 ports. The Transit Access Password prevents unauthorized access to your respective telecom lines/services. For example if you set the LINE 1→LINE 2 Transit Access Password then callers who do not know the password can not access your LINE 2 port/service

Continuous Calling Password (## Password): The ## Password is used to limit the "Continuous Calling Feature" to only those callers who know the password.

#* Password: The #*Password is used to limit the "Force a Disconnect Feature" to only those callers who know the password.

Maximum Call Duration: You can limit the duration of calls through each LINE 1 and LINE 2 port in units from 10 seconds to 160 minutes. This function will not affect calling from the PHONE port or call forwarded calls.

Dial Barring (Toll Number Blocking): This feature will block all the calls starting with the Dialing Plans you enter. You can enter up to five Dialing Plans per LINE 1 and LINE 2 port. For example: 01*050*1747*# will block all calls beginning with 01 and 050 and 1747. This function will not affect calling from the PHONE port or call forwarded calls.

Area Code Insertion (Toll Number Blocking): This feature will insert a preceding prefix or area code into all your Transit Two Stage Dialed PHONE numbers from the LINE 1 and LINE 2 ports. This function will not affect calling from the PHONE port or call forwarded calls.

#1# Key Command: Used to access the programming mode

***# Key Command:** Used to end a program entry

Key Command: After you have completed a call (either a Transit with Two Stage Dialing or Transit with Call Forwarding) you can make additional calls without hanging up. You issue a # # command from the remote handset keypad to generate a new dial tone. This function can be password protected.

#*Key Command: Used remotely from LINE 1 and LINE 2 port to force a disconnect of all engaged ports and return the unit to a ready state. Also from the PHONE port you can manually terminate a LINE 1 ← → LINE 2 transit call in progress and simultaneously engage LINE 2 by pressing the #* on the PHONE port handset. **However, if the existing transit call was originated from a landline calling into LINE 1 or LINE 2 ports the #* command may not be able to force a disconnect until the original calling party hangs up on the distant end.**

*** Command:** * key will insert a one second delay in the call forwarding number. You can use any combination needed. For example 9*[number] or 9** [number] or 9*[number] *[number]

#0 Key Command: PHONE port toggle key. The PHONE port will by default engage the LINE 2 port when the handset is taken off hook. To switch to the LINE 2 port press #0. To switch back to the LINE 1 port press #0 and so on.

Flash Key Command: When the PHONE port is engaged with LINE 1 or LINE 2 and you have a second call on the engaged port you will hear the normal call waiting tones (if you have call waiting service on your line). You can press the flash key to switch to the second call. The first call will be put on hold. Press the flash key again to switch back to the first call.

#9 Key Command: Is used to initiate the answer transfer and/or 3-way conferencing function when the PHONE port is already engaged with either LINE 1 or LINE 2.

- #9 only works from the Phone port.
- Pressing #9 does not put the existing call on hold but merely adds in the other port. Both existing parties will hear the dial tone from the other port. The Phone port user will then dial the new number out the other port to create a 3-way call or simply hang up and thus perform an answer transfer or operator assist dialing function.
- The ## key can be used to redial the number if the line is busy or a wrong number was dialed.

As noted above #* can be used to terminate all the connected parties at any time. **Note however, if the existing call was originated from an analog line calling into LINE 2 or LINE 1 the #* command may not be able to force this port to disconnect until the calling party hangs up on the distant end. This is the case even without the FX-300 installed. If you receive a call on your analog line and the calling party does not hang up you cannot force a disconnection of the call by hanging up your phone. The connection will not be cut until the calling party hangs up so this is also the case when the FX-300 is installed and connected to an analog line.**