
Appendix B USING WITH ETHERNET-BASED AUTOMATION SYSTEMS

The Ethernet LAN connection on the Model 1161 enables remote control of the amplifiers power and channel muting. While the internal web server of the Model 1161 provides an HTML web page based interface, this is not the best means of controlling the unit from another computer system. The Architect Model 1161 utilizes a Telnet TCP/IP protocol for system programmers. The Telnet protocol uses simple ASCII text commands to control and monitor the Architect Model 1161 amplifier.

To log into the Architect Model 1161 via Telnet, you need a Telnet client program in your system. If you are using Windows, you have both Hyperterminal and Telnet. The factory default static IP address of the Model 1161 is *192.168.0.1* and telnet is active on port 23. The default user login ID and password are:

User ID: architect (note: all lower case)
Password: 1100

An example of a typical telnet login session is:

```
/Telnet> login  
/Telnet> UserID?: architect  
/Telnet> Password?: 1100  
/Telnet> User authenticated!  
/Telnet>
```

The serial ASCII control protocol over telnet allows simple integration with other automation computer systems. The basic command format is:

command<cr> <lf>

Where command is the ASCII text string of the command and <cr> is an ASCII carriage return and <lf> is a line feed. These commands are case sensitive and have a one second timeout if no valid command or delimiter is sent.

The commands are broken into two groups: **Controls** and **Inquiries**. The **Controls** issue instructions to the Model 1161 for power control and channel muting; the **Inquiries** return the status of amplifier channels, AC line voltage, the amplifier temperature, and the failure data log.

Note: If during a telnet session there is no communication between the host and the client for 30 seconds, the Architect will terminate its session.

Control Commands

P0	(zero not 'O') Main Power Off	B0	Defeats signal sense
P1	Main Power On	B1	Signal sense Active
M1	Mute channel 1-2	H0	No header and footer to inquiries
M2	Mute channel 3-4	H1	Included header and footer
M3	Mute channel 5-6	SIP	Set IP address for notification messages. Address followed by colon and port number
M4	Mute channel 7-8	AP0	Automatic protect notification off
M5	Mute channel 9-10	AP1	Automatic protect notification on
M6	Mute channel 11-12	AC0	Automatic change notification off
M7	Mute channel 13-14	AC1	Automatic change notification on
M8	Mute channel 15-16	CL	Clear all logs
MA	Mute all channels		
U1	Unmute channel 1-2		
U2	Unmute channel 3-4		
U3	Unmute channel 5-6		
U4	Unmute channel 7-8		
U5	Unmute channel 9-10		
U6	Unmute channel 11-12		
U7	Unmute channel 13-14		
U8	Unmute channel 15-16		
UA	Unmute all channels		

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Inquiry Commands

M?	Binary string showing all zones mute status	D?	Model ID three digit number
	0 = Mute 1 = Active (unmuted) (i.e. '001000' – zone 3 is unmuted)	B?	Signal sense 0=Defeated, 1=Active
S?	Protection status (zone 1-8 and Amp) 1=Normal/Active 0=Mute/Standby 2=Protect 3=Short circuit	H?	Header/Footer Status 0=None, 1=Include <i>See next page for header formats</i>
T?	Temperature (zone 1-8) 0=Cool, 1=Normal 2=Warm 3=Thermal protection 4=Channel muted	IP?	IP address and port set for notifications. Active telnet session not required for notifications.
P?	Main power status – 0=off, 1=on	AP?	Automatic protect notification 0=off, 1=on
V?	AC Line voltage – 0 = Low (less than 105 VAC) 1 = Normal 2 = High (more than 125 VAC)	AC?	Automatic change notification 0=off, 1=on
L?	Protection data log (comma delimited text) <i>See next page for log formats</i>	PB?	Physical bypass 1= bypass switch engaged 0=not engaged

Header Format

The response to inquiry commands may include both a header and footer for more precise identification if desired. The format of that header is as follows:

IFBXXXXXXXXAC

where I = the inquiry command, FB stands for feedback, X is the zone status, and AC is the footer identifying the response as from an AudioControl product.

For example, the response

MFB00100000AC

is the response to a zone mute inquiry (M?) and shows all zones muted ("0") except zone 3 ("1" being active or unmuted).

Logging Format

In response to a logging inquiry (L?), the Architect will respond with the most recent twenty events. The format of the logged response is:

EECCYYYYMMDDHHMMSS

where E= event code, C=zone, Y= year, M= month, D= day, H= hour, M= minute and S=second. Event code include:

00= DC offset/global protection

01= short circuit

02= over temperate

For the zone code:

00 channel pair 1-2

01 channel pair 3-4

02 channel pair 5-6

03 channel pair 7-8

04 channel pair 9-10

05 channel pair 11-12

06 channel pair 13-14

07 channel pair 15-16

99 all zones, i.e. global protection

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