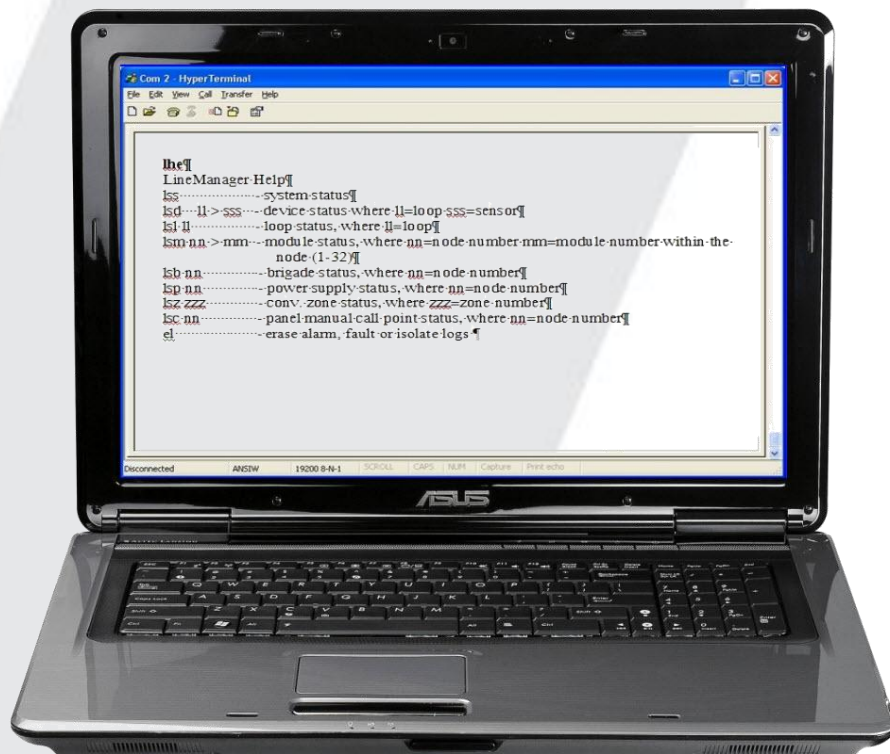




ADVANCED WARNING

SYSTEMS

FireFinder



Fire Alarm Control Panel

Line Manager

MAN 3022

WORLD LEADER OF INNOVATIVE SOLUTIONS
IN FIRE DETECTION AND ALARM SYSTEMS

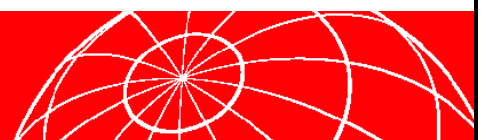


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1 *About This Manual*


1.1 Introduction

LineManager is a software tool developed by AMPAC to enable local or remote interrogation of the FireFinder series FACP's via the debug port on the main control board. It is accessed via the Transfer window in ConfigManager or if the data is required to be saved for future use / record keeping a terminal program such as Hyper-Terminal (Windows default program) can be used.

LineManager commands are available under the application and diagnostic areas of the system and will vary depending on the version of software that is installed, this manual covers Version 6. Some commands can be accessed from both application and diagnostics while others may only be available from one or the other.

1.2 Symbols

 Important operational information

 **Note:** Configuration considerations

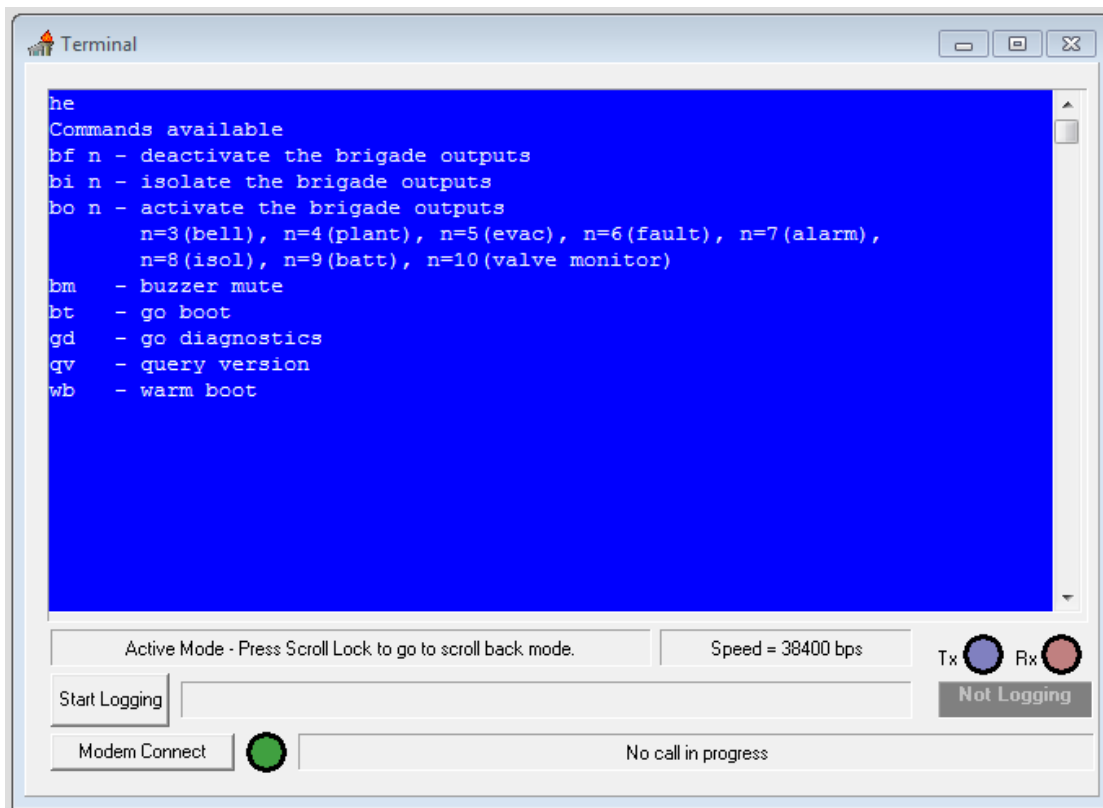


Observe antistatic precautions

2 Application Commands

2.1 Programming Commands

Help Commands (he)



bf 'n'	brigade offset off n=3(bell), n=4(plant), n=5(evac), n=6(fault), n=7(alarm), n=8(isol), n=9(batt), n=10(valve monitor)
bi 'n'	brigade isolate off n=3(bell), n=4(plant), n=5(evac), n=6(fault), n=7(alarm), n=8(isol), n=9(batt), n=10(valve monitor)
bo 'n'	brigade offset on n=3(bell), n=4(plant), n=5(evac), n=6(fault), n=7(alarm), n=8(isol), n=9(batt), n=10(valve monitor)
bt	go boot
ga	go application
pc	program configuration
qv	query version
sz	upload configuration (zmodem)
sy	upload configuration (ymodem)
ry	download configuration (ymodem)
wb	warm boot

2.1.1 Boot Mode

bt

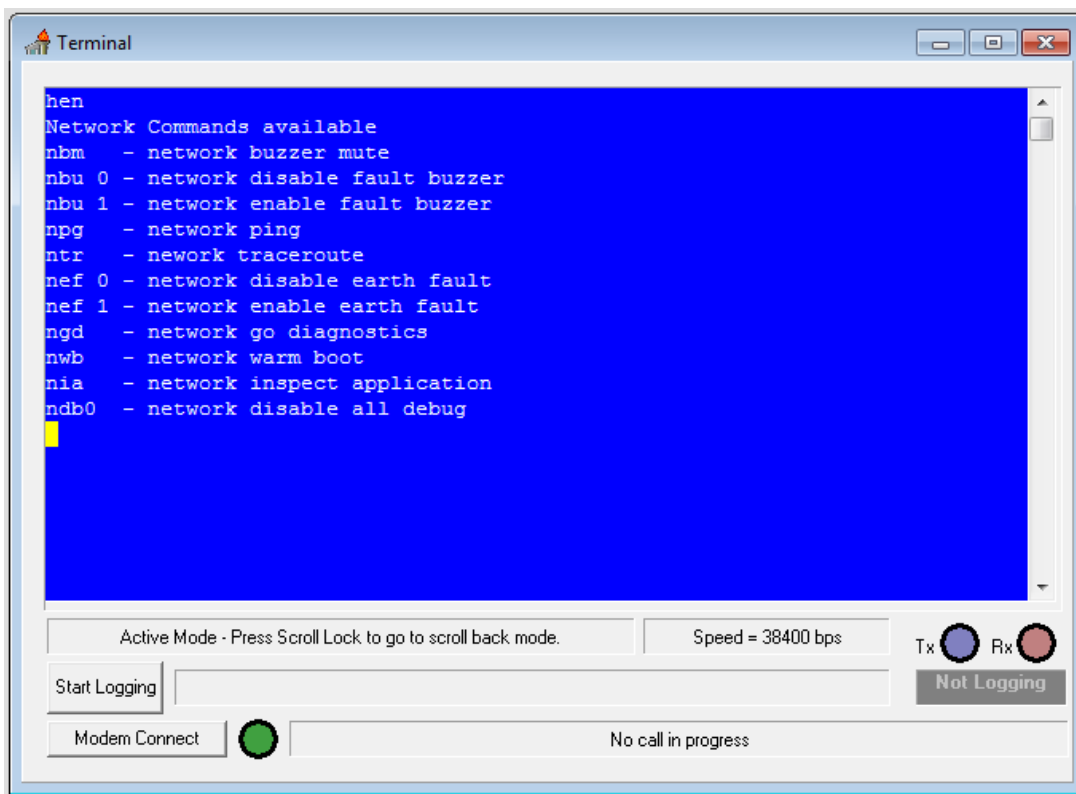
FireFinder Boot Code Version X.XX.XX

Config block checksum okay

Application checksum okay

2.2 Network Commands

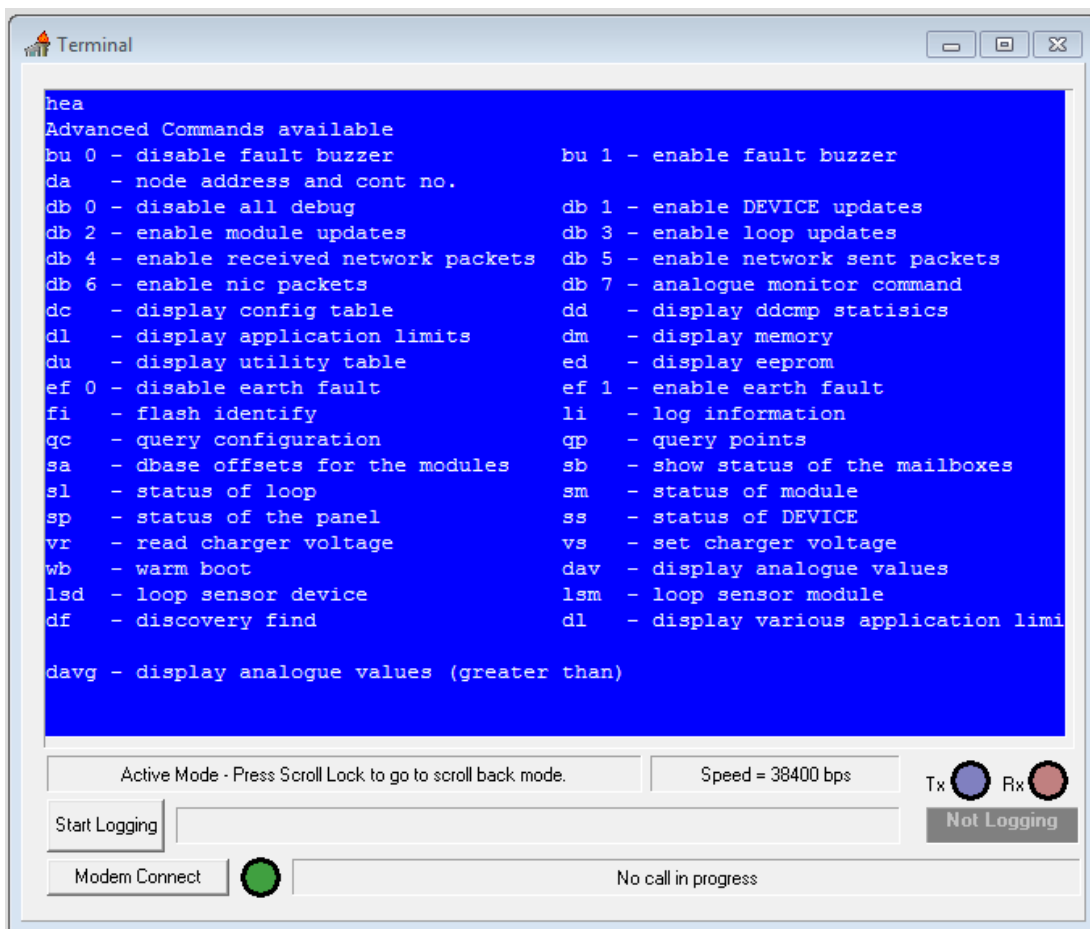
Network Help Commands (hen)



nbnm	network buzzer mute
nbn0	network disable fault buzzer
nbn1	network enable fault buzzer
nbnp	network ping
nbnr	network trace route
nnga	network go application
nnpc	network program configuration
nnpa	network program application
npsc	network send configuration
npsa	network send application
npsc	network send configuration (compressed)
npsac	network send application (compressed)
nbnw	network warm boot
nbnic	network inspect configuration
nbnia	network inspect application
nbnb0	network disable all debug
nbnfxd	network find extra devices
nbnwban	network warm boot all NIC
nbnf0	network earth fault disable
nbnf1	network earth fault enable
nbnelf	network erase log force
nbnwbna	network warm boot net address
nbnied	network inspect error (counters) display
nbnier	network inspect error (counters) reset

2.3 Debug Commands

Debug Help Commands (hea)



bb	Database dump
bu 0	disable fault buzzer
bu 1	enable fault buzzer
ci	init configuration table
da	node address and cont no.
dav	display analogue values
davg	display analogue values (greater than)
db 0	disable all debug
db 1	enable SENSOR updates
db 2	enable module updates
db 3	enable loop updates
db 4	enable received network packets
db 5	enable network sent packets
db 6	Enable NIC packets
db 7	analogue monitor command
dc	display configuration table
dd	display ddcmp statistics
df	discovery find
dl	display application limits
dm	display memory
du	display utility table
ef 0	earth fault disable



ef 1	earth fault enable
el	erase the logs
fi	flash identify
li	log information
ldx	log download (x = s, a, f, d or i)
pi	init password block
pw	enter password
qp	query points
sa	show database offset
sb	show status of mailboxes
sf	sounder card off
sl	show loop database
sm	show module database
so	sounder card on
sp	show panel database
ss	show sensor database
st	show brigade related counter
su	show brigade database
tm	broadcast time delay
ui	init utility block
vr	read charger voltage
vs	set charger voltage
wb	warm boot

2.3.1 Log File Statistic

li

Getting current log totals...OK

Log file statistics:

Number of available entries = 1162
 Number of occupied entries = 11
 (0% of total entries allocated)

System log - > 1 record(s).
 Alarm log - > 0 record(s).
 Fault log - > 10 record(s).
 Isolate log - > 0 record(s).
 Log queue - > head = 1023, tail = 1023, status = ok

2.3.2 Downloading Log File

ldx

To download these files go to Diagnostics mode. (gd)

USAGE: ldx <begin> <end> (x = a larm, f ault, d isolate, i nput/output, s ystem; <begin> = first; <end> = last)

Eg down load Fault logs 2 to 5 is ldf 2 5

FAULT LOG 3 OF 123 23/1/1990 14:42:49

loop 1 sensor 51 SMOKE

L1 S51 Z1 STAT:DEVICE MISSING



FAULT LOG 4 OF 123 23/1/1990 14:42:49

loop 1 sensor 52 SMOKE

L1 S52 Z1 STAT:DEVICE MISSING

FAULT LOG 5 OF 123 23/1/1990 14:42:49

loop 1 sensor 53 SMOKE

L1 S53 Z1 STAT:DEVICE MISSING

DONE.

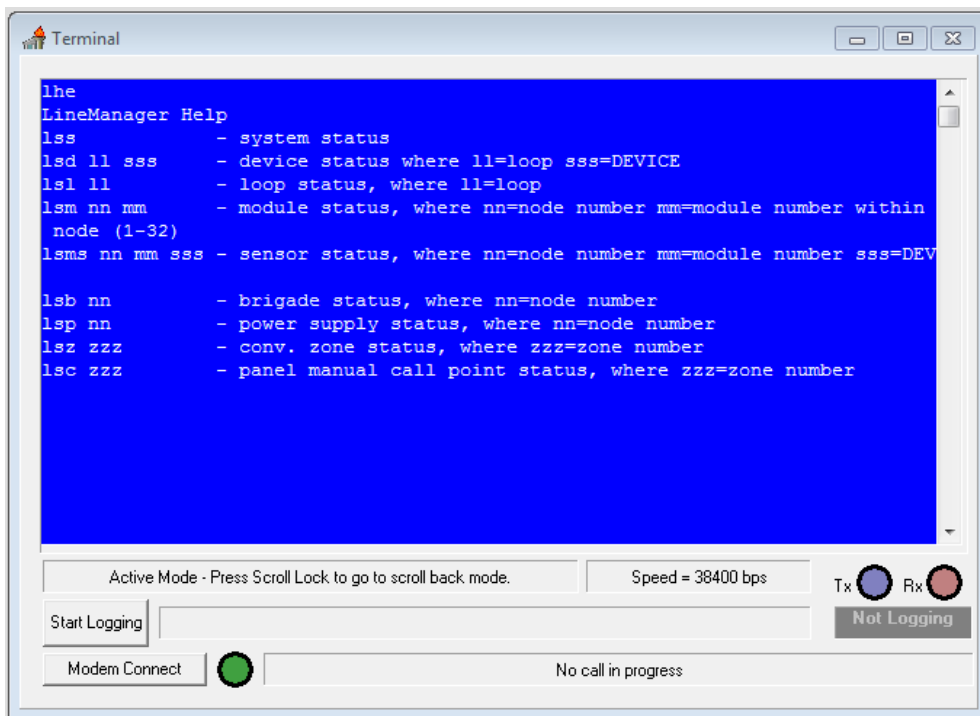
2.3.3 Erase Logs

el

Erases all logs

2.4 Status Commands

LineManager Help Commands (lhc)



lss	system status
lsd	device status
lsl	loop status
lsm	module status
lsms	sensor status
lsb	brigade status
lsp	power supply status
lsz	conv. zone status
lsc	panel manual call point status

2.4.1 System Status

lss

No. of Nodes:	1	In this case (lss) is telling us that the system has 1 Node, 1 Zone and 1 Loop with a fault on the loop.
No. of Groups:	0	
No. of Zones:	1	
No. of Loops:	1	
No. of Alarms:	0	
No. of Pre-Alarms:	0	
No. of Isolates:	0	
No. of Zone/Sensor faults:	0	
No. of Module faults:	0	
No. of Loop faults:	1	
No. of Extra devices:	0	
No. of Mismatched devices:	0	
No. of Mode Mismatches:	0	
Day-Night Disabled		
Software Version 5.0.00		



2.4.2 Device Status

Isd 1 1 - is used to display the configuration of a Loop sensor.

```

Loop 1 Sensor 1 index 1 address 5dc14
Config index:                1
Descriptor string:           loop 1 sensor 1
Type string:                 SMOKE
Zone Number:                1
Groups:                      0 0 0 0 0
Alarm Point:                 30
Prealarm Point:             20
Day Point:                   100%
Day Mode:                    0
Night Point:                 80%
Night Mode:                  0
Day-Night Enabled:          N
Config:                      25 10 40 8
Device type:                 XP95 OPTICAL
Brigade Setting:             BELL:Y  AUX:Y  WARNING:Y  ALARM:Y
                             SPRINKLER:Y ALARM LED:Y
Config setting:              LATCHING
Status:STAT:                 NORMAL
Detected type:               XP95 OPTICAL
Mode:0 Analog value:        25
Inputs(012):                 000
Outputs(012):                000
    
```

2.4.3 Loop

Normal AND Loop in Fault (Open Circuit)

```

Is1
Loop 1
STATUS:NORMAL
Loop powered from main side
    
```

```

Is1
Loop 1
STATUS:OPEN CIRCUIT
Loop powered from main side
Loop powered from return side
    
```

2.4.4 Module Status

Ism 1 1

```

Node 1 Module 1 index 0 address 504c8
Config index:                0
Descriptor string:           Apollo Loop No: 1
Apollo Loop Module
Loop Number                  1
Trip time                    3.8 sec
Trip level                   208 mAmps
Poll delay                   0 mSec
Status:                      Normal
Software version              5
    
```



2.4.5 Brigade Status

Isb1

Bell:	OFF/NORM
Aux:	OFF/NORM
Door switch:	OFF
Warning:	OFF/NORM
Fault:	ON/NORM
ALARM:	OFF
ISOL:	OFF
BATTERY FAIL:	OFF
VALVE MONITOR:	OFF

2.4.6 Power Supply Status

Isp1

CHARGER VOLTAGE 27.45V STATUS:	NORMAL
BATTERY:	DETECTED
MAINS:	OKAY

Should the battery fail or become disconnected entering the command will result in the following screen.

Isp1

CHARGER VOLTAGE 27.45V STATUS:	NORMAL
BATTERY:	MISSING/FAILED
MAINS:	OKAY

2.4.7 Conventional Zone Status

Isz 1

Zone 1 index 1 address 7db0c

Config index: 2

Descriptor string:

Type string:

Zone Number: 1

Groups: 0 0 0 0 0 0

Config: 0 0 0 0

Device type: HOCHIKI MCP

Brigade Setting: BELL:Y AUX:Y WARNING:Y ALARM:Y SPRINKLER:Y ALARM LED:Y

Config setting: LATCHING

STAT:DEVICE MISSING

2.4.8 Panel Manual Call Point Status

Isc

Zone 1 index 0 address 7daf0

Config index: 0

Descriptor string: FRONT PANEL MANUAL CALL POINT

Type string: MCP

Zone Number: 1

Groups: 0 0 0 0 0 0

Config: 0 0 0 0

Device type: HOCHIKI MCP

Brigade Setting: BELL:Y AUX:Y WARNING:Y ALARM:Y SPRINKLER:Y ALARM LED:Y

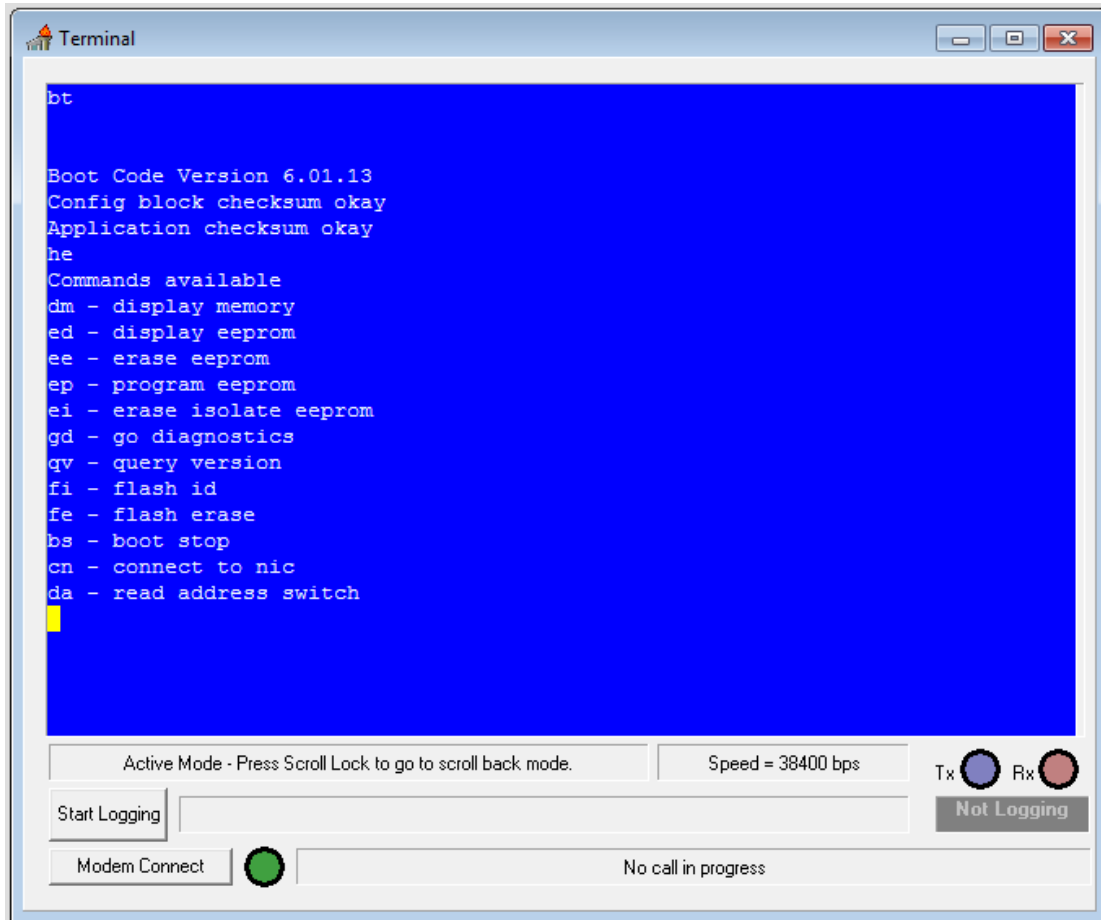
Config setting: LATCHING

STAT:NORMAL

3 Diagnostics Commands

3.1 Boot Mode Commands

Boot help command (bt) then (he)



dm	display memory
ed	display eeprom
ee	erase eeprom
ep	program eeprom
ei	erase eeprom
gd	go diagnostics
qv	query version
fi	flash id
fe	flash erase
bs	boot stop
cn	connect to NIC
da	read address switch

3.1.1 Program EEPROM Settings (ep)

Note: When the EEPROM is erased values default to FFFF

ADDR	Description	Values	Version
82	Controller Node Address	0001 to 0064 (Hex)	
83	Controller Number	0001 to 0004	
84	Hardware Type	000A – FireFinder Controller 0014 – NIC 001E – RLCD Mimic	
85	Hardware Revision	0001 – For 302-674 0002 – For 302-674A & 302-674C 0003 – For 302-674D 0004 – For 302-674E	
86	Earth Fault Detection	0000 – Disable Earth Fault Detection Any other value – Enable Earth Fault Detection	
87	Fault Buzzer	0000 – Disable Fault Buzzer Any other value – Enable Fault Buzzer	
88	Debug Port Output Level	FFFF – Disable Debug Output (Errors only Output) This address is controlled by the DB command	
89	AS4428 Fault and Isolate Buzzer Resound Timeout Enable/Disable (any fault, any isolate)	0000 – Buzzer Resound Disabled Any other value (FFFF) – Enabled (Buzzer Resound after 8 hours)	
8A	AS4428 Alarm Buzzer	0000 – Disable AS4428 Alarm Buzzer	
8B	Zone/Sensor Mode Selection (Not Applicable to AS1603 or NZS4512 which operate in Sensor Mode Only)	0000 – Power up in Sensor Mode/Menu Selectable FFFF – Power up in Zone Mode/Menu Selectable 0001 – Sensor Mode Only (V6) 0002 – Zone Mode Only (V6) Note: RLCD mimic should always be set to 0001	
8C	Latching Plant	0000 – Door switch is ignored if an alarm occurs and the door is opened FFFF – Normal door switch operation	
8D	Self Learn Enable	0000 – Self Learn is enabled Any other value (FFFF) – Self Learn Disabled	
8E	Protocol Type	(0020) Hochiki (0030) Apollo (0031) Synchronised Apollo (V6.5 Slave Required.)	
8F	Watchdog Reset Counter	Value incremented when FireFinder is reset or re-powered	
90	Front Panel Membrane	FFFF – AS4428 or EN54 or MS1404 0000 – AS1603 0001 – GB4717 Hochiki (V6,V6.5) 0002 – GB4717 Apollo (V6,V6.5) 0003 – CP10 (V6) 0004 – EN54 with SENSOR Membrane (V6.0.36.9) 0005 – GB4717 Apollo POST 2005 (V6.5,6.8)	V6.5.10.6, V6.8.0.0
91	Diagnostics Mode Password Protection	0000 – Enable FFFF – Disable	V4,V5,V6,V6.8
92	RS485 Ancillary Module Port	FFFF – Enable 0000 – Disable	V6,V6.5, V6.8
93	Language mode select	FFFF – English, 0000 – Other	V6.5,V6.8

94	Delayed Alarm Sounder Silence	0000 – Enable FFFF – Disable	V4,V5,V6
95	Modbus PLC Address	if (0x0000 or any value > 0x00FF) then address = 1, any other value sets PLC address to that value	V5,V6,V6.8
96	Modbus HLI/Graphics COMs Parity setting	0000 = Even, 0001 = Odd, otherwise no parity	V5,V6,V6.8
97	On-Site Programming Menu	0000 = Enable, Otherwise Disabled	V6,V6.8
98	Powerup with Buzzer and System Fault LED Activated	0000 = Enable, Otherwise Disabled	V6,V6.8
99	8 input control card connected to API674	0000 = Fitted, Otherwise Disabled	V6
9A	New API675 board revisions	0001 – BRD85CPU3-A (1Mb RAM / 2Mb Flash) 0002 – BRD85CPU3-B (2Mb RAM / 2Mb Flash) 0003 – BRD85CPU3-C (2Mb RAM / 4Mb Flash) 0004 – BRD85CPU3-D (1Mb RAM / 1Mb Flash) FFFF – previous api675 boards	V6 Boot V6.01.6
9B	Extended supply fault debounce run-on timeout	0000h to FFFEh = 0 to 65534 seconds FFFFh – extended timeout disabled Note: This timeout is in addition to detection / debouncing time of approx 5 seconds.	V6,V6.8
9C	Diagnostics port baud rate setting for 20MHz BRD85CPUx-x boards	0001 - 19200 bps (Historical, default for api-675 boards CPU only) 0002 or Default - 38400 bps (Recommended) 0003 - 57600 bps (Advanced Users)	V6, V6.5, Boot V6.01.1,V6.8
9D	Fan Card Lamp Test Polarity on API674 board	- Active low Default - Active high	V6.5,V6.8
9E	Walk test self reset timeout	(3 seconds minimum / 5 seconds default) 0000 to 0003 - 3 seconds 0004 to FFFE - 4 to 65534 seconds FFFF - 5 seconds	V6.0.28.17,V6.8
9F	I/O Log Disable/Enable	FFFF – Enable I/O logs 0001 – Disable I/O logs	V6.0.37.5
A0	Discover Multi-sensor Dual Stage Timeout 2	(30 seconds minimum / 180 seconds default / 999 seconds maximum) 0000 to 001E - 30 seconds 001E to 03E7 - 30 to 999 seconds 03E7 to FFFE - 999 seconds FFFF - 180 seconds	V6.0.41.7
A1	Enable Full Function Menu when in alarm	To activate: set to any value < FFFF To de-activate (default): set to FFFF	V6.5.07.0
A1	Discovery Dual Stage “Night mode Timeout” or “Heat mode only”	0xFFFF = Disable both night and heat mode (operate as per default dual stage). 0x0000 = activate dual stage heat mode only (>0 & <=0x001E) = 30 seconds (min) (>=0x001F & <=0x03E6) = the value is as specified; (e.g. 0x0058 = 88 sec). (>=0x03E7 & <=0xFFFFE) = 999 seconds (max)	V6.0.45.20
A2	Daylight Saving – Start Date	To disable daylight saving, set to 0xFFFF. High byte = month,	V6.0.45.20

		<p>Low byte = (4 high bits: 1 = firstdayofmonth, 2 = lastdayofmonth), (4 low bits: day of the week where 1 = Monday, ..., 7 = Sunday)].</p> <p>Example: 0xA2 = 0x0C17 (start daylight saving on the first [1] Sunday [7] of December [0C]).</p>	
A3	Daylight Saving – Start Time	<p>To disable daylight saving, set to 0xFFFF. High byte = hours, Low byte = minutes (24hr format).</p> <p>Example: 0xA3 = 0x171E (start daylight saving at 2330hr where 23=0x17, 30=1E).</p>	V6.0.45.20
A4	Daylight Saving – End Date	<p>To disable daylight saving, set to 0xFFFF. High byte = month, Low byte = (4 high bits: 1 = firstdayofmonth, 2 = lastdayofmonth), (4 low bits: day of the week where 1 = Monday, ..., 7 = Sunday)].</p> <p>Example: 0xA4 = 0x0327 (stop daylight saving on the last [2] Sunday [7] of March [03]).</p>	V6.0.45.20
A5	Daylight Saving – End Time	<p>To disable daylight saving, set to 0xFFFF. High byte = hours, Low byte = minutes (24hr format).</p> <p>Example: 0xA5 = 0x171E (stop daylight saving at 2330hr where 23=0x17, 30=1E).</p> <p>Note: The daylight saving will be automatically disabled if the configuration of 0xA2, 0xA3, 0xA4 or 0xA5 is incorrect.</p>	V6.0.45.20
A6	<p>Timeout for Alarm Automatic Scrolling on the LCD</p> <p>* Note the location A6 is used for both the ECI and Alarm automatic scrolling timeout in the merge version >=V6.8.0.0</p> <p>Timeout for ECI Automatic Scrolling on the LCD (High Byte)</p> <p>Timeout for Alarm Automatic Scrolling on the LCD (Low Byte)</p>	<p>0xFFFF = 30 seconds (default) (>=0 & <=0x0005) = 5 seconds (min) (>0x0005 & <=0x001E) = the value is as specified; (e.g. 0x000A = 10 sec). (>0x001E) = 30 seconds (max)</p> <p>Legend: '?' implies ignore-value.</p> <p>0xFF?? = 30 seconds (default) (>=00?? & <=0x05??) = 5 seconds (min) (>0x05?? & <=0x1E??) = the value is as specified; (e.g. 0x0A?? = 10 sec). (>0x1E??) = 30 seconds (max)</p> <p>0x??FF = 30 seconds (default) (>=?00 & <=0x??05) = 5 seconds (min) (>0x??05 & <=0x??1E) = the value is as specified; (e.g. 0x??0A = 10 sec). (>0x??1E) = 30 seconds (max)</p>	<p>V6.5.09.0</p> <p>V6.8.0.0</p>

A7	Timeout for First-Stage (Coincidence) Alarm Detection	0xFFFF = 300 seconds (default) (>=0 && <0xFFFF) = the value is as specified; (e.g. 0x0064 = 100 sec).	V6.5.09.0,V6.8
A8	Discovery Polling LED	0xFFFF = Disable (default) 0x0000 = Enable	V6.0.48.6, V6.5.10.7, V6.8
A9	Discovery Rapid Compensation	Reserved and not in use.	NA
AA	Enable Full Function Menu when in alarm Auto Interlock Feature	To activate: set to any value < 0xFFFF To de-activate (default): set to 0xFFFF To enable on power up: set to 0xFFFF To disable on power up: set to any value < 0xFFFF	V6.8.0.0 V6.5.11.16
AB	ECI Feedback Input Timeout	0xFFFF = 10 seconds (default) 0x003C = 60 seconds (max) (>=0 && <=0x003C) = the value is as specified; (e.g. 0x001E = 30 sec).	V6.8.0.0
AC	Discovery Multi Sensor Mode 5 Fault Detection Auto Aux (ECI) Disable on power up	0xFFFF = disable (default) 0x0000 = enable 0xFFFF = enable on power up (default) < 0xFFFF = disable on power up	V6.0.57.0 V6.8.0.25
AD	Reset Hold Time for “fan latch reset” & master-reset function (#14) & evacuation function (#55) & sounder-silence function (#56) & buzzer silence function (#77) Reset Hold Time for “agent master reset”	0xFFFF = 10 seconds (default) 0x000A = 10 seconds (min) (>=0x000A && <=0xFFFFE) = user defined	V6.0.60.20 V6.0.64.10
AE	Analogue Value Monitor Threshold for debug command	Reserved and not in use directly – use by “DB 7” debug command.	V6.0.64.30
AF	HLI Text Output (Customised Format)	0xFFFF = (default) < 0xFFFF = customised format where isolate event masks the alarm, prealarm and fault event.	V6.0.64.40
B0	Access Level Timeout	0xFFFF = 300 seconds (default/max) 0x0000 - 0x012C = user defined	V6.0.65.25
B1	Generic Fault Debouncing Timeout	0xFFFF = 0 seconds (default) 0x0000 - 0x003C = user defined 0x003C = 30 seconds (max)	V6.0.65.25
B2	Discovery Multi Sensor Mode 5 Maintenance Fault Masking	0x0000 = enable Any other value = disable (default)	V6.0.65.29
B3	Dual Stage (AAF) Timeout 1	(60 seconds minimum / 60 seconds default / 999 seconds maximum) 0000 to 003C - 60 seconds 003C to 03E7 - 30 to 999 seconds 03E7 to FFFE - 999 seconds FFFF - 60 seconds	V6.0.65.46

B4	Non-MCP Zone Isolate	0xFFFF = disable (default) (any value) = enable	V6.0.65.46
B5	MODBUS Date/Time Sync	FFFF/0000 – Disable MODBUS sync feature 0001 – FFFE – Re-sync period in minutes NB. If EEPROM B5 is enabled on any node; that node shall become the modbus sync master for the network. Only one node on the network should be set as the modbus sync master.	V6.0.65.47
B6	MODBUS Sync Start Register Offset	FFFF – MODBUS Register 40087 0000 - FFFE - MODBUS Register offset from 40001	V6.0.65.47
B7	MODBUS Date/Time Sync Settings	Modbus date/time sync settings (16-bit field) Bit 0-7: Time Offset 00 - 3B = Time offset in seconds (0 - 59 sec) 3C - FF = Not Used (0 sec offset) Bit 8: 1 = Modbus, 0 = Graphics used for date/time sync Bit 9-15: Not Used FFFF(default)	V6.0.65.47

Default EEPROM Settings

AS4428	NZS4512	EN54 Apollo	EN54 Hochiki
ep 82 01	ep 82 01	ep 82 01	ep 82 01
ep 83 01	ep 83 01	ep 83 01	ep 83 01
ep 84 0A	ep 84 0A	ep 84 0A	ep 84 0A
ep 85 04	ep 85 04	ep 85 04	ep 85 04
ep 8b 0000	ep 8b 0001	ep 8b 0000	ep 8b FFFF
ep 8e 30	ep 8e 30	ep 8d 0000	ep 8e 20
ep 90 FFFF	ep 90 FFFF	ep 8e 30	ep 90 ?
ep 91 FFFF	ep 91 FFFF	ep 90 FFFF	ep 91 FFFF
ep 92 FFFF	ep 92 FFFF	ep 91 FFFF	ep 92 FFFF
ep 93 FFFF	ep 93 FFFF	ep 92 FFFF	ep 93 FFFF
ep 94 FFFF	ep 94 FFFF	ep 93 FFFF	ep 94 FFFF
ep 97 0000	ep 97 0000	ep 94 FFFF	ep 97 0000
ep 98 FFFF	ep 98 FFFF	ep 97 0000	ep 98 FFFF
ep 99 FFFF	ep 99 FFFF	ep 98 FFFF	ep 99 FFFF
ep 9b FFFF	ep 9b FFFF	ep 99 FFFF	ep 9b FFFF
		ep 9b 0030	
		ep 9c 0002	

CP10	MS1404	GB4717 (Apollo)	GB4717 (Hochiki)
ep 82 01	ep 82 01	ep 82 01	ep 82 01
ep 83 01	ep 83 01	ep 83 01	ep 83 01
ep 84 0A	ep 84 0A	ep 84 0A	ep 84 0A
ep 85 04	ep 85 04	ep 85 04	ep 85 04
ep 8b FFFF	ep 8b FFFF	ep 8b 01	ep 8b 01
ep 8e 30	ep 8e 30	ep 8e 30	ep 8e 20
ep 90 0003	ep 90 0003	ep 90 0005	ep 90 0001
ep 91 FFFF	ep 91 FFFF	ep 91 FFFF	ep 91 FFFF
ep 92 0000	ep 92 0000	ep 92 FFFF	ep 92 FFFF
ep 93 FFFF	ep 93 FFFF	ep 93 0000	ep 93 0000
ep 94 0000	ep 94 FFFF	ep 94 FFFF	ep 94 FFFF
ep 97 0000	ep 97 0000	ep 97 0000	ep 97 0000
ep 98 0000	ep 98 FFFF	ep 98 FFFF	ep 98 FFFF
ep 99 FFFF	ep 99 0000	ep 99 FFFF	ep 99 FFFF
ep 9b 0030	ep 9b FFFF	ep 9b FFFF	ep 9b FFFF
		ep 9c 0002	

Note:

8A set according to customer requirement

8B set to 0001 for **RLCD** mimic

8B set to **FFFF** for PANEL set up with conventional zone modules only (i.e. applies to all codes except GB4717 since conventional zone modules are not used in GB4717)

8C set according to customer requirement

8D set according to customer requirement

95 and 96 are set according to the graphics configuration

99 is only enabled if the 8 way control card is fitted for MS1404

9A and 9C must be set to suit the CPU supplied

90: A value of 0x0005 refers to the new membrane (e.g. "Pre-alarm" replaced "Sounder Fault")

9A must be set to 0x0003 for the Merge Version of the Application Software >=V6.8.0.0.

9C is now defaulted to 0x0002 (i.e. 38400 baud rate) for all CPU except the API-675 CPU

3.1.2 Go Diagnostics

Return gd

FireFinder Diagnostic Code Ver. 5.0.00 (781292 bytes allocated)

Util table checksum okay

Password area checksum okay

Configuration checksum okay

sysptr 15bea

modhands is 1bb18

max_alm_buf 2251e

Log bank 0 (0x00760000)OK .. (138 used, 6102 free).

Log bank 1 (0x00780000)OK .. (0 used, 6240 free).

System ready.

4 Special Debug Commands



Note: Internal Use – USE WITH CARE

aa	key/cmd state
ab	lcd/global counters
ac	limit/self-learn counters
ad	day light saving setting
ae	external led mimic status buffer
ag	all kinds of fault that are related buzzer sounding
ah	sensor alarm buffer
ai	zone alarm buffer
aj	group status database
ald	logical point database's data
als	logical point database's send flag status
am	mailbox's data
ann	force a module's multi sensor to have Disc RW Fit
anf	clear the condition set by "ann" previously
ao	sounder lookup table database
ap	sounder index table database
aq	zone stat[] database
ar	module database
as	glcda stuff
at	function's ioc_data stuff
au	am group stat database
av	z_index[] database
aw	remote sounder group database
ax	fib control (fib no, state(1[normal] or 2[alarm]))
ay	set modicon output register (reg no, value)
az	set spb hli text string (string)
a1a	local slave io db, local module io db
a1b	iostat db
a1c	local device led test (Apollo)
a1d	send mail "3" command (node, controller, msg)
a1e	sensor config database (config index)
a1f	Find local extra device

5 Certification Information

The *FireFinder*™ is designed and manufactured by:

AMPAC TECHNOLOGIES PTY LTD

7 Ledger Rd

Balcatta

WA 6021

Western Australia

PH: 61-8-9242 3333

FAX: 61-8-9242 3334



(HEAD OFFICE)

Manufactured to: _____

Certificate of Compliance Number: _____

Equipment Serial Number: _____

Date of Manufacture: _____

UNCONTROLLED DOCUMENT

NOTE: Due to AMPAC's commitment to continuous improvement specifications may change without notice.

