

# MODEL 1512 WIRING DIAGRAM

See the Model 1512 Installation Guide (LT-0138) for a complete description of wiring connections.  
See the Model 891A Programming Manual (LT-0120) for complete programming instructions.

### NFPA 74

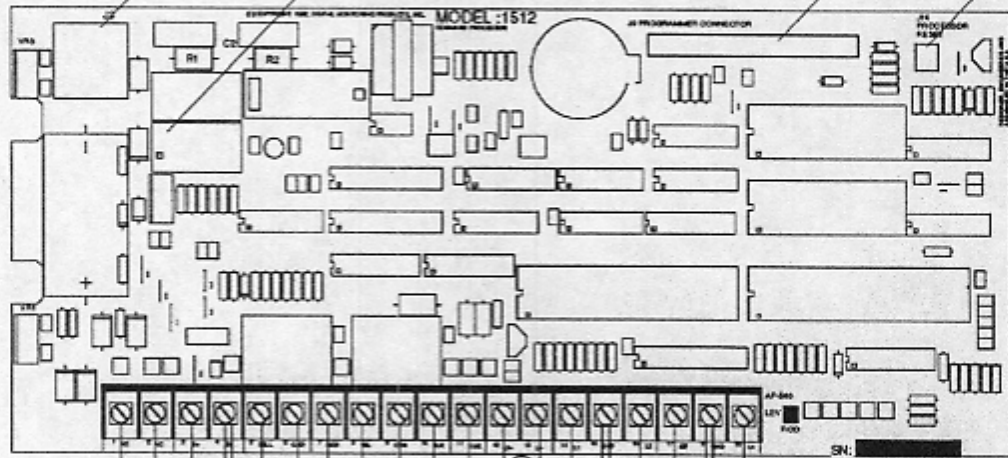
This equipment should be installed in accordance with the National Fire Protection Association's Standard 74. Printed information describing proper installation, operation, testing maintenance, evacuation, planning and repair service is to be provided with this equipment. See user's manual provided with each Model 1512 for complete operation and testing instructions.

### POWER LIMITED

All circuits on the Model 1512 comply with the requirements for inherent power limitation.

### TYPES OF SERVICE

Suitable for Household Fire and Grade A Household Burglary.



16.5 Vac 40va Transformer  
DMP Model 321 or  
40va wire in  
DMP Model 320

Plug into  
120Vac  
outlet not  
controlled  
by a switch

Maximum Distance  
With 18 Ga. wire 70 feet  
With 16 Ga. wire 40 feet

Secondary Power Supply  
Use only 12VDC 6.5Ah rechargeable  
battery DMP Model 367  
1.2 Amps max. charging current  
Replace every 1-5 years

Cold Water Pipe  
Earth Ground

Household Fire Wiring  
UL recognized limited energy cable must be  
used for connection of all inverting, indicating  
and supplementary devices.

NFPA 74  
An alarm sounding device must be  
installed indoors so that it is  
clearly heard in all sleeping areas.

Wheelock Series 40  
9.0 - 15.6Vdc 125mA  
UL Listed

NOTE: A maximum of four  
keypads or loop expanders  
may be connected to the 1512.  
Loops are available on the first  
two addresses.

Heat detectors, pull stations  
or any other UL Listed  
sounding devices.  
Unlimited number of units.

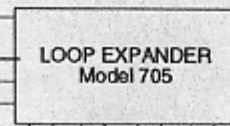
1000 ohm  
EOL Resistor  
DMP Model 310

Keyswitch Arming Loop  
See Section 5.4.  
May be connected to any loop

4 WIRE SMOKE DETECTORS  
ESL Model 440CT  
or 445CT  
10 - 30 VDC 0.04 mA standby  
15 mA Alarm  
BRK Model 1412 or 2412  
9.5 - 19 VDC 0.10 mA standby  
35 - 77 mA Alarm

Power Supervision  
Relay  
ESL Model 200A  
Ailtech FS-604

1000 ohm  
EOL Resistor  
DMP Model 310



Model 705  
12Vdc Supply  
25ma

See 705 Installation Sheet  
for list of approved  
2 wire detectors.

Loops 5, 11-14, 21-24, suitable for installation as Style A.

Loop 5 compatibility identifier: A  
Loop 5 maximum operating range 8.8 VDC to 14.2 VDC  
Approved two wire smoke detectors for Loop 5

Man.	Model	Detected	Base	# of
		Id	Id.	Del.
BRK	1409	A	Base	12
BRK	1451	A	B401 or B401B	A 10
BRK	1451DH	A	DH400	A 10
BRK	2400,2400TH	A		10
BRK	2451, 2451TH	A	B401 or B401B	A 10
BRK	2451	A	DH400	A 10
DS	DS2000S001D	A	MB200-2W	A 15
ESL	422C422CT	S10P		25

RA-410 MAY BE USED ON ALL BRK DETECTORS  
USE 320 OHM RESISTOR IN MB200-2W BASE  
DIFFERENT DETECTOR MODELS MAY NOT BE MIXED

### WARNING

THIS UNIT MAY BE PROGRAMMED TO UTILIZE AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

Verification	Control	Smoke Detector
Loops	Unit Delay	Model Delay
5*	13.6 sec.	_____ sec.
_____	13.6 sec.	_____ sec.
_____	13.6 sec.	_____ sec.
_____	13.6 sec.	_____ sec.

\*The use of a verification delay on Loop 5 is optional  
Use the delays marked on the smoke detectors.