

DET 6B/12B

SPECIFICATIONS

DIMENSIONS:

DET6B - 12.0 in. x 3.5 in. x 11.5 in.
DET12B - 15.0 in. x 4.0 in. x 13.5 in.

POWER:

115 VAC, 50/60 Hertz
16-24 VAC 50/60 Hertz with no step down transformer
24 VDC or 12 VDC (separate terminals)
120 MA standby, 170 MA operating

INPUT RESISTANCE:

Up to 7,000 Ohms based on EOL value selected (see Table 1)

INPUT CHANNEL ACTIVATION:

6 or 12 Channels EOL resistor (5.6K)
Low Battery Detection

OPERATING CONTROL:

None - All functions are set in EPROM

VISIBLE LED INDICATORS:

Main Power: Green
Trouble: Yellow
Watchdog: Red
On-line: Red (transmitting)

OUTPUT:

1 - 10 Telegraph Codes, program each zone
Open or Ground Telegraph Line on Failure (or local failure)
Form C Trouble Relay

NFPA-72 Compliant



SYSTEM DESCRIPTION

The DET-6B is an indoor, mounted six-zone solid-state telegraph transmitter that employs a unique code for each zone. It includes a CAM lock, AC transformer, standby battery and built-in charger. The unit is housed in a steel enclosure suitable for indoor mounting.

Telegraph codes unique to each of the six zones for Trouble, Alarm and Secure, and

Low Battery are transmitted over a 100- *Larger Unit Not Shown* milliampere circuit using positive non-interfering successive (PNIS) line current detection to avoid clashes between more than one transmitting box. Automatic ground return, a watchdog timer, and a jumper-selected internal trouble buzzer assure continued main system operation and operator notification in the event of box failure. A built-in trouble relay output (Form C) and the ground and code relay (grounding, opening, or no effect on the 100 MA line) are activated by the watchdog timer ensuring reliable failure detection in the event of malfunction.

Transmission speed is adjustable to match that of mechanical boxes. Unit can be programmed to send any number of rounds (or no rounds) on alarm, trouble, secure and low battery.

Automatic switchover to battery power is performed upon AC power loss with a low battery code transmitted if power is not returned in approximately 50 hours. After transmitting a low battery code, the unit bypasses all input circuits to avoid spurious transmission of false alarms.

The DET-6B is field-programmable with an optional EPROM programmer and PC software. The DET-12B, a dual six-zone version (total of 12 zones), in a larger enclosure is also available.

Use of Lightning Protection is recommended on both DET-6B and DET-12B.

ORDERING INFORMATION:

450247-0000 - DET-6B, 6-Zone
425106-0000 - DET-6B, Dual Line, 6-Zone
425173-0001 - DET-12B, 12 Zone
900435-0001 - Lightning Protection Board, (recommended)
450404-0001 - Master Trip PC Board
450423-0003 - Factory Programmed Chip for DET-6B
010001-0021 - DET-PROG, PC Software with Programmer



TYPICAL HOOKUP

