

# VIGILANT SGD ALARM TRANSMITTER 1924-2

LT0104

1. INTRODUCTION  
The Vigilant 1924-1 SGD transmits the Fire, Defect, Isolate and Test signals from a Fire Alarm Panel or DBA (PFA) to the NZ Fire Service via the LTX-2 Interface Unit and ATS System.
2. CONNECTION OF SGD TO LTX-2 (Refer diagram overleaf)  
Distance must be less than 1000m. Wire size for 12V/0V lines :  
up to 100m = 0.2sqmm, 101-500m = 0.5sqmm, 501-1000m = 1.0sqmm.  
Use 0.2sqmm or greater for "A" or "B" lines (twisted pair recommended for long lines or noisy environments).  
Connect SGD J3-A to LTX-2 SGD 1 "A"  
Connect SGD J3-B to LTX-2 SGD-1 "B"  
Connect SGD J3-"+" to LTX-2 SGD-1 "+12V"  
Connect SGD J3-"-" to LTX-2 SGD-1 "0V"  
(Connect SGD to LTX SGD-2 terminals if the 2nd SGD connection).
3. CONNECTION OF SGD TO PFA (Refer diagram overleaf)  
If connecting to Fire Alarm Panel or standard DBA with no segment swapper, remove SEG 1/2 link and use J1 or J4.  
If connecting to standard DBA with segment swapper, either: leave seg swapper in, fit SEG 1/2 link and use J1; or: remove seg swapper, remove SEG 1/2 link and use J1 or J4.  
If connecting to DBA with wiring or Segment 2, fit SEG 1/2 link and use J1.  
If the test switch has a pole wired in series with the isolate switch, bridge this pole of test switch to prevent simultaneous test and isolate.
4. ADDRESS SELECTION  
Give 1st SGD address 1 i.e. fit address link 1, remove 2,4,8,16 and connect to SGD-1 on LTX. Give 2nd SGD address 2, i.e. fit link 2, remove 1,4,8,16 and connect to SGD-2 on LTX. (Valid addr. 1-16).
5. OPERATION  
The 5 indicators and buzzer indicate the current status of the PFA, test progress and acknowledgement, and polling by the LTX-2.
  - 5.1 "POLLED" INDICATOR  
OFF - SGD is not being polled (or no power).  
SLOW FLASH - SGD is being polled by LTX-2.  
ON - Faulty SGD, replace it.
  - 5.2 "NORMAL" INDICATOR  
OFF - Invalid address selected, no power or in D, F or I.  
SLOW FLASH - in Test Normal mode.  
FAST FLASH - waiting for a test acknowledge.  
ON - PFA is in Normal state.
  - 5.3 "DEFECT" INDICATOR  
SLOW FLASH - in Test Defect mode.  
FAST FLASH - Test Defect acknowledge received.  
ON - PFA is in Defect state.
  - 5.4 "FIRE" INDICATOR  
SLOW FLASH - in Test Fire mode.  
FAST FLASH - Test Fire acknowledge received.  
ON - PFA is in Fire state.

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- 5.5 "ISOLATE" INDICATOR  
SLOW FLASH - in Test Isolate mode.  
FAST FLASH - Test Isolate acknowledge received.  
ON - PFA is in Isolate state.
- 5.6 ALL INDICATORS EXCEPT "POLLED" FLASH  
Power-Up initialisation or 15 second warning (buzzer sounds as well) if PFA has been switched or SGD has timed out of Test mode or PFA de-isolated with PFA still in Fire state. Clear Fire or isolate PFA before 15 seconds is up to avoid fire call to brigade.
- 5.7 BUZZER  
Beeps every 10 seconds - Address invalid or SGD faulty (replace). Beeps every second - Program re-start or 15 second warning if PFA has been switched or SGD has timed out of Test mode or PFA de-isolated with PFA still in Fire state.  
Beeps twice/second - Test Fire acknowledge received.

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