ᐯ VIGILANT

VIGILANT MULTIDROP 4-WIRE SGD ALARM TRANSMITTER 1924-1

1.   INTRODUCTION
The Vigilant 1924-1 4-wire SGD transmits the Fire, Defect, Isolate and Test signals from a Fire Alarm Panel or FBA/DBA to the NZ Fire Service via an alarm transport system. It operates in either single line or multidrop mode.

2.   CONNECTION OF SGD TO ASE (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 ASE RS485 PORT A/B "A" Terminal
Connect SGD J3-B to ASE RS485 PORT A/B "B" Terminal
Connect SGD J3-"+" to ASE RS485 PORT A/B "+12V" Terminal
Connect SGD J3-"-" to ASE RS485 PORT A/B "0V" Terminal

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
Link selectable. For Multidrop Mode fit ADDRESS 16 link and one or more of ADDRESS 1, 2, 4, 8 links to select valid addresses 1-8 and 9-15 for software versions 4.00 and later. To select multidrop mode address 16 remove all ADDRESS links (software V4.00 and later).
For non-multidrop mode valid addresses are 1-16: either fit ADDRESS 16 link or one or more of ADDRESS 1, 2, 4, 8 links to select address 1-15.

5.   OPERATION
The 5 indicators and buzzer indicate the current status of the PFA, test progress and acknowledgement, and polling by the ASE.

5.1   "POLLED" INDICATOR
OFF - SGD is not being polled (or no power).
SLOW FLASH - SGD is being polled by ASE.
ON - Faulty SGD, replace it.
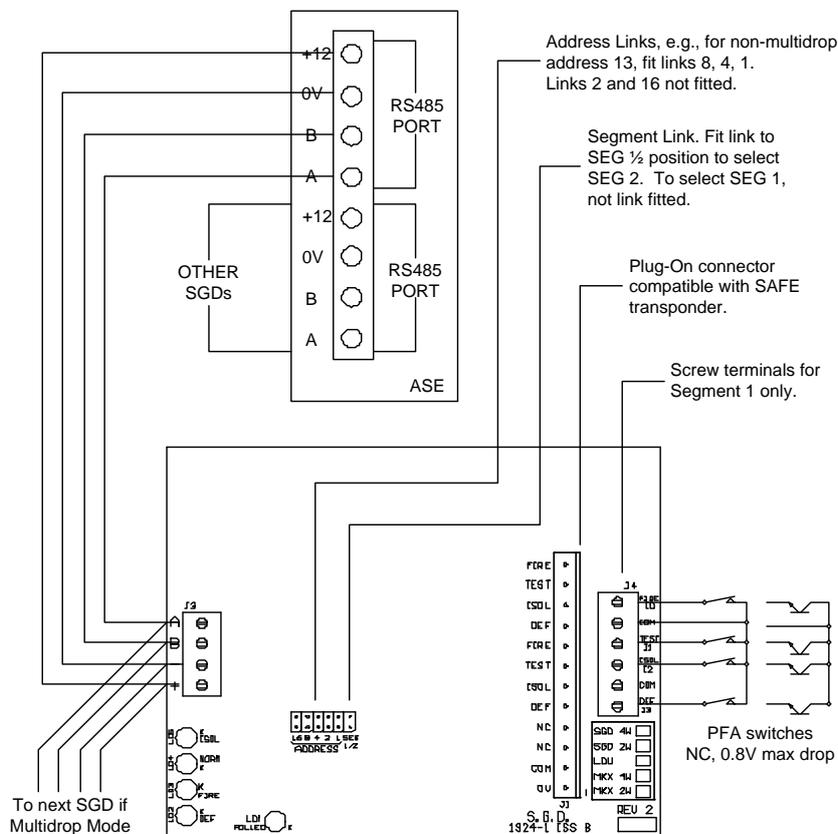
5.2   "NORMAL" INDICATOR
OFF - Invalid address selected, no power or in D, F or I.
SLOW FLASH - in Test Normal mode.
FAST FLASH - waiting for a test acknowledge.
ON - PFA is in Normal state.

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.

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.