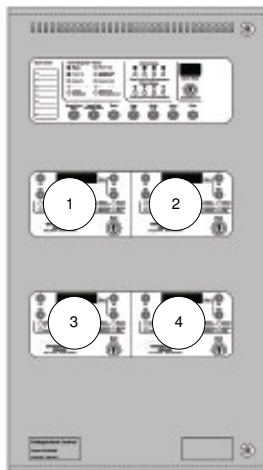


KENTEC ELECTRONICS LTD	TEST PROCEDURE TO BS EN ISO 9001:2000 SIGMA XT+ CONTROL PANELS	Procedure No: TP21000	
		Stock No: K21021M3, K20141M3, K21042M3, K21081M3, K20182M3, K21083M3, K21084M3	
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Prepared by.....R Jefferys

Authorised by... .. S Holmes

- 1) Ensure that panel under test is as per description on the job documentation.
- 2) Inspect panel for unblemished finish and sound construction as per drawing K8675.
- 3) Before powering panel, set addresses on extinguishant modules as below:



- 4) Connect mains supply and batteries.
- 5) Turn on write enable switch on Sigma CP section and operate Enable keyswitch.
- 6) Press the processor reset switch on the Sigma CP section.
- 7) Press the watchdog reset switch on the Sigma CP section.
- 8) When n1 appears on the seven segment display on the Sigma CP section, press the ENTER button on the Sigma CP section.
- 9) Repeat above for n2, n3 and n4 (number of nx indications will equal the number of extinguishant modules fitted).
- 10) Switch on the write enable and enable controls switches on the UUT and press the ENTER button. Press the DOWN button to display **EXTING O/P 2 LEVEL = XX** then press the ENTER button twice.
- 11) Press the down button to display **EXTING O/P 1 LEVEL = XX** then press the enter button twice
- 12) Switch off write enable switch on Sigma CP section and ensure that it is not displaying a fault condition and that t1 is shown on the seven segment display.
- 13) Ensure that with all mode select keyswitches in the upright position, all extinguishant module displays show MANUAL & AUTO.
- 14) Switch on the write enable switch on extinguishant module 1.
- 15) Press the ENTER button on extinguishant module 1 and press the UP button until the display shows FIRST ACTIVE ZONE = X
- 16) Press the ENTER button. The display will now show FIRST ACTIV. ZONE = X?
- 17) Press the UP button until the display shows FIRST ACTIV. ZONE = 1?
- 18) Press the ENTER button to accept this.
- 19) Press the UP button until the display shows FIRST ACTIVE ZONE = X
- 20) Press the ENTER button. The display will now show LAST ACTIV. ZONE = X?
- 21) Press the UP button until the display shows LAST ACTIV. ZONE = 2?

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- 22) Press the ENTER button to accept this.
- 23) Switch off the write enable switch on the extinguishant module.
- 24) Repeat steps 12 to 21 for each extinguishant module connected but setting the first and last activation zones as 3 & 4 for module 2 (if fitted), 5 & 6 for module 3 (if fitted) and 7 & 8 for module 4 (if fitted).
- 25) Switch off the Enable keyswitch.
- 26) Create a fault on extinguishant module 1 by shorting the 1st Stage alarm output. Ensure that a fault is shown on the Sigma CP section, the buzzer sounds continuously and the seven segment display show n1.
- 27) Repeat the above for all modules ensuring that n2 is displayed when a fault is present on module 2, n3 is displayed when a fault is present on module 3 and n4 is displayed when a fault is present on module 4,
- 28) Trigger zone 1 on the Sigma CP section and ensure that module 1 shows PREACTIVATED on the display and that the Activated LED is flashing.
- 29) Trigger zone 2 on the Sigma CP section and ensure that module 2 shows ACTIVATED RELEASE IN XX SECONDS on the display and that the Activated LED is flashing.
- 30) Switch on Enable keyswitch and reset the Sigma CP section.
- 31) Press the processor reset switch on extinguishant module 1.
- 32) If a second extinguishant module is fitted, trigger zone 3 on the Sigma CP section and ensure that module 2 shows PREACTIVATED on the display and that the Activated LED is flashing.
- 33) If a second module is fitted, trigger zone 4 on the Sigma CP section and ensure that module 2 shows ACTIVATED RELEASE IN XX SECONDS on the display and that the Activated LED is flashing.
- 34) Reset the Sigma CP section and press the processor reset switch on extinguishant module 2.
- 35) If a third extinguishant module is fitted, trigger zone 5 on the Sigma CP section and ensure that module 3 shows PREACTIVATED on the display and that the Activated LED is flashing.

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36) If a third module is fitted, trigger zone 6 on the Sigma CP section and ensure that module 3 shows ACTIVATED RELEASE IN XX SECONDS on the display and that the Activated LED is flashing.

37) Reset the Sigma CP section and press the processor reset switch on extinguishant module 3.

38) If a fourth extinguishant module is fitted, trigger zone 7 on the Sigma CP section and ensure that module 4 shows PREACTIVATED on the display and that the Activated LED is flashing.

39) If a fourth module is fitted, trigger zone 8 on the Sigma CP section and ensure that module 4 shows ACTIVATED RELEASE IN XX SECONDS on the display and that the Activated LED is flashing.

40) Reset the Sigma CP section and press the processor reset switch on extinguishant module 4.

41) Operate the Mode select keyswitches on all extinguishant modules and ensure that they all display MANUAL MODE.

42) Pull down yellow flap on each module and press the red button. Ensure that all modules show ACTIVATED RELEASE IN XX SECONDS .

43) Reset the Sigma CP section and press the processor reset switch on each extinguishant module.

44) Press the Lamp test button on the Sigma CP section and ensure that all LEDs and all elements of all displays light with buzzer sounding.

45) Check that all labels are present and straight and that information on rating plate has been filled in correctly.

46) Ensure that all keys and resistor kits are present. Enclose manual and sign off as tested.

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