

Technical Bulletin

K3000 Control Panels - Gent Detector Compatibility TB 1016

When using the K3000 control with Gent detection devices, it is recommended that a modified control panel is used, in order for a greater number of devices to be connected to the detection zone whilst maintaining circuit monitoring.

This modification permits a zone load of up to 3mA to be connected to the zone circuit.

This modification does not affect LCMU compatibility with the K3000 detection zone.

If a K3000 control panel is to be supplied for use with Gent detection devices, Kentec sales department should be notified at the time that the order is placed, so that the PCB modifications may be implemented at the manufacturing stage.

It is not recommended that K3000 panel circuits are modified on site, as surface mount components are used, which require specialist reworking equipment. If the K3000 panel supplied is not modified for Gent detection devices, then it is recommended that the panel PCBs are returned to Kentec for modification.

Modification details

These details are given so that it is possible to identify whether the control panel has been modified for use with Gent detection devices.

This modification applies to the Con05 PCB (main K3000 controller unit), K4ZMS 4-zone expansion PCB and K8ZMS 8-zone expansion PCB.

The modification comprises of the following changes;

1. Remove resistor R9
2. Change resistor R3 to a 27k ohm value (identified by number 273 on chip resistor)
3. Change resistor R10 to a 2k2 ohm value (identified by number 222 on chip resistor)

To see if a PCB has been modified to support Gent devices, the first indicator is that resistor R9 will not be present. The location of this resistor may be found from the PCB layout drawings in the K3000 Installation & Commissioning Manual, pages 11 to 13.

On the main 4-zone controller PCB, R9 is located between the B3 and C3 cut out resistors. These resistors are clearly identified on the PCB and also in the K3000 manual PCB layout drawing. On the K4ZM & K8ZM boards, the resistor R9 is in approximately the same location. This is located in the near vicinity to the A3 cut-out resistor on both boards.

Further verification is possible by checking resistor values of R3 and R10.

For more information on K3000 detector compatibility, see Kentec Technical Bulletin TB1013.