

Technical Bulletin

K3700 Series Control Panels TB 1020 K4.01 'S' Terminal Operation

The Kentec K3700 series Multi Area Extinguishant Control Panels and Extinguishant System Firing Units (ECU) all utilise the K4.01 control PCB. One K4.01 PCB is used for each Extinguishant Control Area.

This PCB takes the zone activation information from either the K3000 control panel outputs (or from the FCI switch input in the ECU module) and provides 2nd Stage Sounders and Relay outputs, plus Extinguishant control and monitoring.

In addition to the above facilities, the K4.01 PCB provides interfaces to remote status units, to allow remote activation, mode selection and status indication on the Kentec Extinguishant System Status Units (or equivalent).

The indication outputs are "switching negative" type, utilising the common 24 volt "Status +" as the power source. These outputs are labelled A, M, I, R and ISO and have the following operation;

Terminal Reference	Operation
A	Automatic and Manual Extinguishant activation mode selected.
M	Manual Only Extinguishant activation mode selected.
I	Extinguishant Discharge Imminent - release timer active.
R	Extinguishant Released - output operation selectable.
ISO	Extinguishant outputs Isolated (Disabled) via hold off or mode selection.

The current issue (Issue 05) K4.01 PCB also has an additional terminal, identified by an "S" reference.

This "S" terminal is also a "switching negative" type and is used to show that the Pressure Switch input has been activated.

The operation of the "S" terminal is similar to that of the "R" terminal, but differs in that the "R" terminal operation may be configured to switch when the Extinguishant Release Output is activated. This is selected using the GR switch (Switch 2) on the 10-way configuration switch.

By comparison, the "S" output ONLY operates when the "PRES SW" input is activated.

Any output that is controlled by the "S" output should be supplied by the "Status +" supply terminal, as shown on Page 16 of the K4.01 Panel Operation and Maintenance Manual.

If relays are to be controlled by this output, they should be fitted with a suppression diode across the relay coil, to avoid unwanted transient generation when the relays are de-energised.

NOTE: This output is not present on the K3800 Series (K4.01 plus) range of control panels or Extinguishant Coincidence Units.