

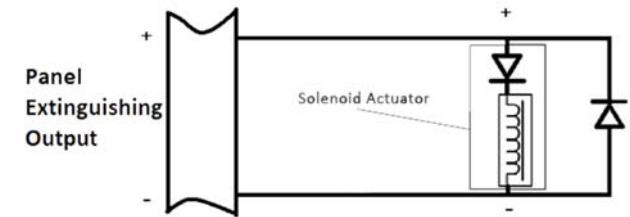
Solenoid Actuator FSL Extinguishant Control Panel Setup Options • Inertech

FSL Inert Clean Agent Gaseous Suppression Systems

- Solenoid actuator is supplied fitted with internal polarizing diode as mentioned in paragraph 10.1 of the Kentec manual
- Suppression diode must be fitted in parallel as shown in the wiring diagram
- If the fire panel displays a fault, follow the instructions in the Kentec manual included in the table below to set up

Solenoid Wiring

Solenoids must have a resistance of greater than 28 ohms to ensure that the maximum current rating of the extinguishant output is not exceeded. Solenoids should be fitted with a suppression diode to prevent EMF generated by the solenoid when it de-energises from upsetting the operation of the control panel. Only polarised solenoids (i.e. solenoids fitted with an internal polarising diode) should be used.



From Kentec Single Area Control Panel Manual December 2012

Setting up extinguishant monitoring circuit

All control panels are supplied with end of line diodes for the connection of solenoids. It should not be necessary to adjust the fault monitoring circuit in this configuration, unless the panel fails to report a short circuit fault when tested by shorting the end of line device. If igniting actuators are to be used, then the set up procedure detailed here should be followed.

To enable monitoring of circuits that have a very low resistance which varies according to the number of actuators fitted and cable length, it is necessary to adjust the monitoring level once the actuators have been fitted.

This is done using a variable resistor which is accessible through the front of the control panel.

Make sure the extinguishant output is not active and no other faults are displayed when carrying out this setting up procedure i.e. panel is in the quiescent state.

Adjustment

Rotate the extinguishant adjust control anticlockwise to illuminate the Fault lamp – anticlockwise > ON

Rotate the extinguishant adjust control clockwise to extinguish the Fault lamp – Clockwise > OFF

From Kentec Multi-Area Control Panel Manual July 2012

Setting up extinguishant monitoring circuit

The extinguishing output circuit is factory set to monitor the end of line diode that is fitted to the terminals and will normally show a value of around 270.

If the parameters of the extinguishant output change e.g. by connecting a solenoid in parallel with the monitoring diode or removing the diode and fitting igniting actuators, then the extinguishing output monitoring level will need to be "learnt". To do this, operate the enable controls keyswitch to put the system into access level 2.

The LCD will show:

```
ACCESS LEVEL 2 ►  
ENTER FOR MENU
```

Operate the WRITE ENABLE switch by gently sliding it to the left. The LCD will show:

```
AL 3 UPDATES = XX  
ENTER FOR MENU
```

Press the ENTER button and then the UP button repeatedly until the LCD displays:

```
EXTING. O/P 1  
LEVEL = XXX
```

The XXX displayed here is the previous (factory) level to which the monitoring level had been set

Press the ENTER button. The LCD will now show:

```
EXTING. O/P 1  
LEVEL = XXX ?
```

The XXX show here is the current monitoring level detected on the extinguishing output. Press the ENTER button to learn the new monitoring level.

Press the UP button to set the monitoring level for output 2 in the same way if it is being used, otherwise switch the write enable slide switch to the right (off) position and check that an open or short circuit fault on the extinguishing output(s) is detected and shown on the control panel.