



EMS TemPoint

Dual Detector Head (Smoke/Heat) Switch Settings

The EMS Detector range are now supplied with a Dual Detector head, which is able to detect either smoke or heat by simply changing the head settings.

Behind the Detector head module, a bank of 7 dip switches is located. The switch configurations provide much different functionality of the detector head and allow either smoke or heat mode to be selected.

The benefits of the new Dual Detector head module is to allow easy interchanging between heat and smoke modes without having to purchase a new head module.

The tables below illustrate the dip switch settings to accomplish the required function from the detector head.

Smoke Head Sensitivity Settings

| Sw 1 | Sw 2 | Sw 3 | Sw 4 | Sw 5 | Sw 6 | Sw 7 | Mode of Operation | Smoke Sensitivity % Per M |
|------|------|------|------|------|------|------|-----------------------|---------------------------|
| Off | Off | Off | On | Off | X | On | High Sensitivity | 1.6 |
| Off | On | Off | On | Off | X | On | Normal Sensitivity | 2.3 |
| On | Off | Off | On | Off | X | On | Low Sensitivity | 3.0 |
| On | On | Off | On | Off | X | On | Low Sensitivity + AVF | 3.0 + AVF |

Table 1

Heat Head Sensitivity Settings

| Sw 1 | Sw 2 | Sw 3 | Sw 4 | Sw 5 | Sw 6 | Sw 7 | Mode of Operation |
|------|------|------|------|------|------|------|-------------------|
| Off | Off | Off | Off | On | X | On | 58°C ROR |
| Off | On | Off | Off | On | X | On | 58°C fixed |
| On | Off | Off | Off | On | X | On | 75°C fixed |
| On | On | Off | Off | On | X | On | 82°C fixed |

Table 2

X – Not Used

ROR – Rate of Rise

AVF - Accelerated Alarm Verification, to prevent false alarms due to transient smoke.

Dual Detector Sensitivity

The Dual Detector set into single smoke or heat mode has new specified sensitivity levels of detection. These are supported by current standards (EN54 part 5 for smoke and EN54 part 7 for heat).

The final commissioning, system sensitivity detection settings and hand over of the Radio Fire System to the end user is the responsibility of the fire installation contractor.