



ZP

Analogue Fire and Smoke Sensors



Knowing what to expect. . . .

ZP SENSORS SEND INFORMATION TO THE CONTROL PANEL EVERY 2 SECONDS – ALGORITHMS IN THE SYSTEM PROCESSING SOFTWARE COMPARE THE INCOMING ZP SENSOR SIGNALS AGAINST PROFILES – ENABLING SENSORS TO DISCRIMINATE AGAINST FALSE OR UNWANTED ALARMS WHILST DETECTING REAL FIRES SOONER.

Elegant styling, designed to be unobtrusive, fits perfectly into modern building interiors concealing powerful state of the art electronics. Each sensor type is designed specifically to provide expert detection of temperature rise, products of combustion, smoke or combinations of all three.

Based upon tried and tested software and communications and used in thousands of installations throughout the world, the ZP range incorporates the latest components and manufacturing technology.

Easily addressed by switch settings, located on the sensor base plate - the unique identification code establishes the device within the system. Up to 127 series ZP sensors can be connected to each loop.

All sensors are automatically self tested once every 24 hours and are compensated for calibration changes caused by dirt, temperature, humidity, voltage fluctuations and long term contamination. This maintains every sensor at a constant sensitivity level, allowing even faster fire detection without false alarms. Sensors automatically advise when near maintenance levels have been reached or maintenance is required.

Sensitivity can be varied through preset levels, either manually or automatically on a timed basis – allowing for example lower sensitivity whilst buildings are occupied during the day, then automatically increased when the premises becomes empty at night time.

An important feature, selectable on all smoke sensors, is Alarm Verification enabling the control panel to re-examine incoming fire data prior to making the final alarm decision – reducing even further the likelihood of unwanted alarms.

Easy to install, all units simply plug into a base with a built in, automatic locking facility. Devices can only be removed by use of a special tool.



The ZP sensors

ZP710 Ionisation smoke sensor >

The ZP710 ionisation sensor measures the density of smoke particles in the 0.01 to 10 micron range and provides an active output proportional to the amount of smoke present in the sensing chamber. It is responsive to both visible and invisible products of combustion with very early response to fires in the incipient stage. Dual chamber design provides maximum stability and the device is ideal in risk areas where small particle smoke may be expected for example locations where oil, spirits, wood or paper may be stored. The sensor is fully approved by international certification boards to EN54 Part 7.



< ZP720 Thermal sensor

The ZP720 thermal sensor provides an active output proportional to the ambient temperature. This output value is transmitted to the control panel every two seconds. It is especially useful in areas where environmental conditions may preclude the use of smoke detection. Sensitivity and configuration on an individual sensor basis are set in the control panel and can be adjusted between four levels from 58°C to 75°C and includes rate of rise algorithms. The sensor is fully approved by international certification boards to EN54 Part 5.

ZP730 Optical smoke sensor >

The ZP730 optical smoke sensor measures the density of smoke particles in the 0.5 to 10 micron range and provides an active output proportional to the amount of smoke present in the sensing chamber. It is responsive to visible smoke with early responses to smouldering fires. The photo electric principles of operation make it particularly useful where ionisation could prove too sensitive. The sensor's proven stability in air movement, associated with air conditioning systems has made it a popular selection in modern building interiors. The sensor is fully approved by international certification boards to EN54 Part 7.



< ZP732 Combination smoke and thermal sensor

The ZP732 combines optical smoke sensing and thermal monitoring to provide an accurate warning of fire. Individual software control of each element measures actual levels, as well as temperature rate of rise. The sensor is fully approved by international certification boards to both EN54 Part 5 (Class A1 and A2) for thermal performance and EN54 Part 7 for smoke sensitivity.

ZX832 Multisensing fire detector >

Representing the next generation of sensing technology, the ZX832 gives an earlier warning of fire or smoke, with the ability to discriminate against false or unwanted alarms. Software using multi-criteria sensing forms the basis of this advanced device. The detector consists of integrated high sensitivity smoke and thermal sensors. The system combines the dynamic results of rates of change patterns and absolute levels of smoke and heat, to identify real fire criteria. Selectable software algorithms allow the response to be matched to each particular hazard. The sensor is fully approved by international certification boards to both EN54 Part 5 (class A1 and A2) for thermal performance and EN54 Part 7 for smoke sensitivity. The device is also approved within CEA4021 test procedures for multisensor detectors.



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