



PANASONIC

Panasonic 4402 multi-sensor detector with carbon monoxide detection

Product code 41314 · Fire alarm systems > Field devices > Detectors

Analogue addressable multi-sensor detector with an optical smoke detector, a heat detector and a carbon monoxide (CO) sensor. A smoke alarm also requires a rise in CO concentration, which reduces false alarms.

- Smoke, heat and CO detection in one detector
- Smoke alarm requires a CO rise: reduces alarms caused by artificial smoke and oil mist
- Heat threshold (57 °C) triggers an alarm on its own
- Service signal for contamination and 72 months after CO sensor manufacture
- Can be tested with Testifire equipment without test mode
- Designed in the same way as optical smoke detectors



Product description

Panasonic 4402 is a grey analogue addressable multi-sensor detector with an optical smoke detector, a thermistor-based heat detector and an electrochemical carbon monoxide (CO) sensor in a low-profile housing. The detector is intended for dry indoor premises where an ordinary smoke detector is prone to false alarms, for example due to artificial smoke or oil mist. When designing coverage areas, the 4402 is treated as an optical smoke detector in accordance with national regulations.

The fire decision is based on artificial intelligence, which combines smoke density, temperature, CO concentration and their rates of rise. Temperature thresholds (57 °C or a rapid rise) trigger an alarm on their own, but the smoke threshold additionally requires a rise in CO concentration. For example, with a rapid rise in smoke, an alarm requires a CO rise of at least 2 ppm per minute and a CO level of at least 5 ppm. Smoke, temperature and CO values can be read from the control panel. The detector compensates for contamination and gives a service signal when it needs to be replaced, and also 72 months after the CO sensor was manufactured.

Installation and testing

- Fitted in analogue mounting base 3312x, 4313 or base sounder 3379; locking screw included
- The COM loop and an external indicator are connected to the mounting base
- Address 001–253 is set with tool 4414 before connection to the loop
- NORMAL mode: EBL512 G3 and EBL128 V $\geq$ 2.1, EBLOne V $\geq$ 3.3
- In test mode, smoke triggers an alarm without CO; Testifire tests smoke, heat and CO simultaneously

Technical data

Product code	41314
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Detectors
Colour	Grey (Munsell N8)
Weight	131 g
Dimensions	Ø 102 × 63 mm
LED	2 red (alarm), 1 green (polling)
Operating temperature	-10...+50 °C
Storage temperature	-25...+75 °C
Humidity	Max. 95% RH, non-condensing
Material	Polycarbonate blend
IP rating	IP41
Operating voltage	12–30 V DC (nominal 24 V DC)
Current consumption (quiescent)	0.3 mA (+0.025 mA with green polling LED)
Current consumption (alarm)	1.3 mA (1.8 mA with external indicator)
Alarm temperature	57 °C
Sensors	Optical smoke, heat (thermistor), CO (chemical)
Address range	001–253
Short-circuit isolator	No
Compatibility	EBL512 G3, EBL128, EBLOne (NORMAL mode)
Mounting	In base 3312x, 4313 or 3379
Standards	EN 61000-6-3, EN 50130-4, EN IEC 63000 (RoHS)

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Technical datasheet: 4402 multi-sensor detector with carbon monoxide detection

Certificate: EU declaration of conformity, no. ESSC-F00024-05

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-4402-multi-ilmaisinhaka-co-osoitteellin/