



PANASONIC

Panasonic 4400I analogue multi-sensor detector with short-circuit isolator, white

Product code 41312 · Fire alarm systems > Field devices > Detectors

Addressable analogue multi-sensor detector that combines an optical smoke detector and a heat detector. A built-in short-circuit isolator and AI-based fire decision reduce false alarms.

- Optical smoke and heat detection in one low-profile detector
- Built-in short-circuit isolator without its own address
- Learning function selects the alarm algorithm suited to the room
- Installation date stored in memory and automatic service signal
- Can also be used as a heat detector only (A1, A2S)
- Approved to EN 54-5, -7, -17 and -29 and by VdS (G217086)



Product description

Panasonic 4400I is a white addressable analogue multi-sensor detector that combines an optical smoke detector, a heat detector and a built-in short-circuit isolator in one low-profile housing. The detector is intended for dry indoor areas and works only in Advanced mode with EBL512 G3 ($V \geq 2.4$) and EBLOne ($V \geq 3.3$) control panels.

The fire decision is based on artificial intelligence that combines smoke density, a fixed temperature threshold and the rate of temperature rise. In this way, real fires are detected and false alarms caused by, for example, artificial smoke or oil mist can be reduced. Five room algorithms are available: normal, smoke/steam, clean, heater and cooking/welding. The learning function monitors local conditions for about a month and switches to a more suitable algorithm if necessary; for known rooms, the algorithm can also be set manually with EBLWin. The detector compensates for contamination automatically and gives a service signal when it needs to be replaced. It also stores its installation date, so the control panel can report an ageing detector.

The built-in short-circuit isolator divides the COM loop into segments, so a short circuit disables only the faulty segment. Two red LEDs flash in a fire alarm, and a green LED can indicate control panel polling, test mode or isolator activation.

Installation

- Installed in a 4412F base or a 4479 base sounder; not suitable for 3312x or 3379 bases
- Automatic addressing with EBLWin or manually with the 4414/4414E tool (address 001–253)
- Can be locked to the 4412F base with a hex socket screw (ordered separately)
- No external indicator connection in the detector; the 4418 remote indicator is connected via the base

Technical data

Product code	41312
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Detectors
Colour	White (Munsell 10Y9/0.5)
Weight	76 g
Dimensions	Ø 102 × 41 mm
LED	2 red (alarm), 1 green (status)
Operating temperature	-10...+50 °C
EN 54 approval	EN 54-5, EN 54-7, EN 54-17, EN 54-29
VdS approval	G217086
CPR	0786-CPR-21553
Storage temperature	-20...+70 °C
Humidity	Max. 96% 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
Alarm temperature	57 °C (multi mode); classes A1 and A2S in heat detector mode
Address range	001–253
Short-circuit isolator	Built-in
Compatibility	Advanced mode: EBL512 G3 V ≥ 2.4, EBLOne V ≥ 3.3
Mounting	In base 4412F or base sounder 4479
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: 4400I analogue multi-sensor detector with short-circuit isolator

Certificate: EU declaration of conformity, no. ESSC-F00027-03

Certificate: Declaration of performance (DoP), no. 0786-CPR-21553 (document ID ESSC-FP0027-2)

Certificate: CPR certificate of constancy of performance, no. 0786-CPR-21553

Certificate: VdS approval, no. G 217086

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-4400i-multi-ilmais-in-oe-kenttalaitteet/