



PANASONIC

Panasonic 2841 intrinsically safe analogue heat detector

Product code 41576 · Fire alarm systems > Field devices > Ex detectors

Intrinsically safe addressable analogue heat detector for potentially explosive atmospheres (zones 0, 1 and 2). The detector is connected to the COM loop via IS isolator unit 2842.

- ATEX II 1 G Ex ia IIC T5 Ga, zones 0/1/2
- Addressable, for EBL512 G3, EBLOne and EBL128 panels
- Up to 20 IS detectors per isolator unit 2842
- Three alarm algorithms: A1, A2S and BS
- IP66/67 with mounting base 2843
- EN 54-5, VdS G223019



Product description

Panasonic 2841 is an intrinsically safe (IS) addressable analogue heat detector installed in potentially explosive atmospheres in zones 0, 1 and 2. The detector works like the analogue heat detector 3308/3309: the temperature is measured with a thermistor, and a fire alarm is indicated by the detector's LED.

One of three alarm algorithms in accordance with EN 54-5 is selected for the detector in EBLWin: class A1 (alarm at 56 °C, or as early as 46 °C with a rapid rise in temperature), A2S (60 °C) or BS (74 °C). The detector operates in NORMAL mode in EBL512 G3 and EBL128 panels and in EBLOne panels from version 3.3 onwards, and its address (001-253) is set with the 4414 or 4414E address setting tool before connection.

Installation and compatibility

The detector is connected to an IS COM line, which is connected to the COM loop via IS isolator unit 2842 installed outside the hazardous area. Up to 20 IS detectors 2840 or 2841 can be connected to one isolator unit. The IS COM line is radial without a return conductor, its length can be up to 500 m, and it does not need an end-of-line resistor. The detector is mounted on the ceiling either on its own (IP22) or in the watertight mounting base 2843, giving an IP rating of IP66/67. The detector is intended to be tested, for example, with Solo or Testifire test equipment.

Technical data

Product code	41576
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Ex detectors
Colour	Grey

Weight	325 g
Dimensions	Ø 102 × 65 mm
LED	Red
Operating temperature	-10...+55 °C
IP rating	IP22, IP66/67 with mounting box 2843
EN 54 approval	EN 54-5
ATEX certificate	DEKRA 11ATEX0107 X
ATEX classification	II 1 G Ex ia IIC T5 Ga
CPR	0786-CPR-21784
Material	Flame-retardant ABS and polycarbonate
Operating voltage	15–17.3 V DC (nominal 16 V DC, IS COM line)
Current consumption (quiescent)	≤ 0.3 mA
Current consumption (alarm)	≤ 1.5 mA
Humidity	Max. 95% RH, non-condensing
Alarm temperature	A1: 56 °C (rapid rise 46 °C), A2S: 60 °C, BS: 74 °C
Connection	Push-in terminals, conductor 0.08–2 mm ²
VdS approval	G223019

Documents

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

Technical datasheet: 2840–2843 intrinsically safe addressable detectors

Certificate: EU declaration of conformity, no. ESSC-F00018-10

Certificate: Declaration of performance (DoP), no. 0786-CPR-21784 (document ID ESSC-FP0018-12)

Certificate: CPR certificate of constancy of performance, no. 2831-CPR-F2749 (issue 02)

Certificate: CPR certificate of constancy of performance, no. 0786-CPR-21784

Certificate: EU-type examination certificate (ATEX), no. DEKRA 11ATEX0107 X, issue 3

Certificate: VdS approval, no. G 223019 (dated 2 June 2023)

Certificate: VdS approval, no. G 223019 (dated 18 July 2025)

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-2841-atex-lampoilmaisin-osoitteellinen/