



Series 200 COPTIR Sensor

CO Photo Thermal Infra Red - 2251CTLE

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200 Series intelligent plug-in COPTIR fire sensors combine four sensing elements into one unit: CO sensing (using EC cell technology) for monitoring CO products from a fire, IR sensing for measuring ambient light levels and flame signatures, optical smoke detection and heat detection. By measuring and processing the individual sensor outputs in conjunction with intelligent algorithms, the detector is both ultra-immune to nuisance sources which are incorrectly identified as a real fire by a single sensing element, and yet remains very sensitive to real fires.

The CO sensing cell has an average expected lifetime of approximately five years. The CO cell is not a field-replaceable component. An internal timer signals the control panel with a fault to indicate the approach of the CO cell's end of life. Upon expiration, the cell should be replaced, through the system supplier. However, smoke and heat detection is not compromised when the CO cell is expired, but the fault will remain. The algorithms automatically adjust to properly weight the inputs from the photoelectric, heat and IR sensors.

Individual sensor alarm thresholds are programmable within the control panel software. The F100A and F120A control panels can utilise the 6 sensitivities available from a single sensor, and react accordingly. The smoke levels within the sensor are continuously monitored and reported to the panel. With the 200 Series addressable capability, each sensor's address is easily set with decade address switches, giving the precise location of each sensor in the event of a fire or for selective maintenance when chamber contamination reaches an unacceptable level.

Features:

- Highest nuisance alarm immunity
- Unique, true four sensor multi-criteria fire detector incorporating carbon monoxide, photo, thermal and IR sensing elements Advanced algorithms interpret and respond to the multiple inputs
- Six available sensitivities
- CO sensing for fastest response to slow-developing, smouldering fires
- Fully integrated infrared sensing to support the fire alarm decision
- Automatic drift compensation of smoke sensor and CO cell
- Rotary decade address switches, 00 to 99
- Dual red LEDs for 360° visibility
- Optional remote LED accessory
- Magnet test function bypasses inbuilt delays



2251CTLE COPTIR

Specifications:

Size:	66mm(h) x 102mm (w) in B501 base
Shipping weight:	130g
Material:	Bayblend FR110
Operating temperature range:	-20°C to 55°C
Sensitivity:	See Sensitivity Settings below
Relative humidity:	15% to 90% non-condensing
Voltage range:	15 to 32VDC
Standby current @ 24VDC:	200µA (nominal)
LED current @ 24VDC:	7mA

Sensitivity Settings:

Level 1	Low false alarm resistance, high photo sensitivity (3.28%/m) with no delay
Level 2	Medium false alarm resistance, medium photo sensitivity (6.56%/m) with no delay
Level 3	Standard false alarm resistance, low photo sensitivity (9.84%/m) with no delay
Level 4	High false alarm resistance, low photo sensitivity (9.84%/m) with up to 10min delay
Level 5	Very high false alarm resistance, low photo sensitivity (13.12%/m) with up to 10min delay
Level 6	Heat only mode. 60°C or Rate of Rise



B501 Base



B524IEFT-1 Base

Ordering Information:

Description

Analogue addressable COPTIR sensor
Analogue sensor base
Analogue sensor base with integral short circuit isolator

Part Number

2251CTLE
B501
B524IEFT-1

Listing No.

afp-2143
N/A
N/A

PERTRONIC INDUSTRIES PTY LTD

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