



सीएसआईआर
CSIR
भारत का नवाचार इंजन
The Innovation Engine of India



सीएसआईआर- एम्प्री
CSIR-AMPRI

@mprisensors

**Intelligent Sensors and alarms
for smoke, heat and fire**

**Scared of fire,
not any more:**



@mprialarms

**DIRECTOR, CSIR- ADVANCED MATERIALS AND PROCESSES
RESEARCH INSTITUTE (AMPRI)**

(Council of Scientific & Industrial Research)

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FIRE and FIRE ACCIDENT

- ❑ Most household faces the risk of 5 home fire in the average life time.
- ❑ Smoke, heat and fire alarms can effectively prevent and minimize damage to both life and wealth.
- ❑ Active fire protection involves manual and automatic detection and suppression of fires by using fire protection alarm, as well as smoke and heat detectors.



@mpri sensors



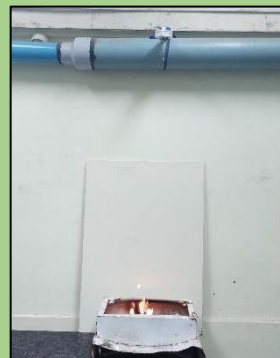
- Are you looking at a smart alarm system for Smoke, Heat, and Fire, CSIR-AMPRI has a system.
- AMPRI's smart alarms are:
 - ❑ Cost-effective,
 - ❑ Sensitive with high-performance,
 - ❑ Highly accurate,
 - ❑ Durable,
 - ❑ Portable,
 - ❑ Loud, obnoxious, and impossible to ignore, which help mobilize individuals to follow our evacuation plan.



Smoke



Heat



Indoor fire



Outdoor fire



Technical specification

S.No	Specification	Range
1	Input voltage	12-28 V
2	Static current	10-20 mA (can be tunned)
3	Alarm current	40-50 mA
4	Operating temperature	Up to 70 °C
5	Operating humidity	≤ 90 %
6	Installation method	Ceiling mounted
7	Wiring mode	2-wire/3-wire/4-wire (can be tuned)
8	Alarm sound	Above 80 db (can be tuned)



Detectors Developed @ CSIR-AMPRI

