# ADDRESSABLE SMOKE DETECTOR

# BP-FD-ASD301

## OVERVIEW

BP-FD-ASD301 addressable photoelectric smoke detector (Detector hereunder) is a kind of photoelectric smoke detector. With an internal microprocessor, it supports electronic coding and is accessed through BP-FD-ASD301 fire alarm control panel via a two-wire bus. The detector realizes real-time acquisition of the in-situ smoke concentration data and sends back the data to a fire alarm control panel. It can also receive and execute the control commands given by a fire alarm control panel.

The detector is suitable for such industrial and civil buildings that have a great deal of smoke during fires but no smoke under normal circumstances, such as restaurants, hotels, teaching buildings, office buildings, computer rooms, communication machine rooms, libraries and archives.

## FEATURES

- It can realize electronic coding and rewrite the address via coder in situ.
- Within a single-chip microcomputer, it can process the sampling data in real-time, save the latest 144 historical data and realize a curve tracing for the field situation.
- It has a temperature, humidity and dust accumulation drift compensation function and a sensor fault detection function (fault reporting to fire alarm control panel).
- Non-polarity, two-bus connection that ensures convenient installation and maintenance.
- Designed with an upper cover and a lower cover and installed on an independent base, it can be installed, debugged and maintained conveniently.
- Built-in remote indicator output terminal, drive remote indicator lit when fire alarm
- It has the function of automatic shutdown to save power

## SPECIFICATION

| Model: BP-FD-ASD301 | |
|---|---|
| **Technical Parameters** | |
| Operating Voltage | Loop 24V (18V ~ 28V) |
| Standby Current | ＜0.3mA |
| Alarm Current | ＜1.5mA (without remote indicator) <br> ＜3.5mA (with remote indicator |
| Fire LED | Red, Flash in polling, and illuminate in alarming |
| Remote indicator output | Polarity-sensitive output, directly connect to remote indicator (built in 10k resistor in series, max. output current is 2mA); The red indicator will blink in the monitoring status or remain lit in the alarm status |
| Programming | Electronically addressed |
| Programming Range | Occupying one address within 1 ~ 324 |
| Wiring | Loop: two wire, polarity-insensitive |
| Environmental Temperature | -10℃ ~ +50℃ |
| Relative Humidity | ≤95%, non-condensing |
| Material of Enclosure | ABS |
| Dimension | Diameter: 100mm <br> Height: 58mm (with the base) |
| Mounting Hole Distance | 44.5mm ~ 64.3mm |
| Weight | About 128g (with the base) |
| Operating voltage | Loop 24V (18V ~ 28V) |