

# DI-M9102N Intelligent Multi-criteria Smoke Detector



## Description

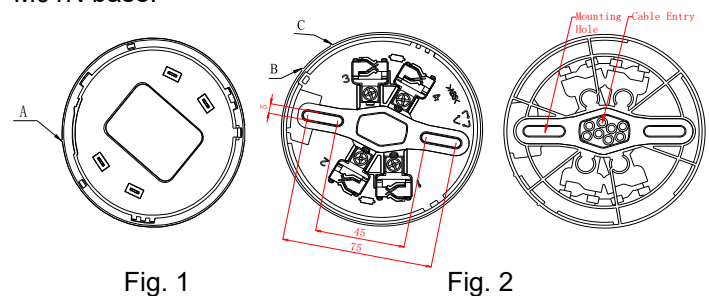
DI-M9102N Intelligent Multi-criteria Smoke Detector is an addressable type fire detection device, build up fire alarm system together with fire alarm panel and other alarm devices. Using Multi-Wave Multi-Angle (MWMA) techniques, DI-M9102N detector can recognize features of smoke particles from different type of fire. Therefore, sensitivity has been enhanced and the false alarms caused by dust has been reduced.

## Features and Benefits

- Address can be programmed in field;
- Strong environmental adaptability due to drift compensation
- Remote indicator output available;
- Reed switch test;
- Self-diagnostic;
- Polling LED can be set to OFF;
- 3 levels of smoke sensitivity programmable, complying to UL268 7th Edition.

## Terminals and Installation Holes

Fig. 1 shows the detector bottom and Fig. 2 DB-M01N base:



- 1&3: Loop connection (non-polarized)  
 2: Positive terminal of remote indicator  
 4: Negative terminal of remote indicator  
 Warning: Do not punch mounting holes and cable entry holes bigger than needed. Do not punch more holes than needed.

## Recommended Cabling

1.0mm<sup>2</sup> or above fire cable is recommended, laid through metal or flame-retardant conduit, but subject to local codes. It's suggested to use cables of different color for remote indicator connection to distinct polarity.

## Application

The factory default setting is smoke sensitivity Level 2. The detector can be addressed, and information be read or written in field using P-9910B programmer. Below is the parameters set using programmer.

Detector Parameter	Smoke Sensitivity	Polling LED
1	1	Normal
2	2	Normal
3	3	Normal
129	1	OFF
130	2	OFF
131	3	OFF

## Certificates and Compliance

- Standards: UL 268. Listed by UL
- WEEE & RoHS compliant

## Order Information

Part No.	DI-M9102N
Device Name	Intelligent Multi-criterial Smoke Detector
Product No.	10106112
Compatible Products	GST-M200, GST-IFP4M Intelligent Fire Panel

## Technical Specification

Operating Voltage	Loop 24V(16V~28V)
Standby Current	≤0.4mA
Alarm Current	≤1.4mA (without remote indicator) ≤3.4mA (with remote indicator)
Fire LED	Red, Flashes in polling, and illuminates in alarm.
Fault LED	Yellow. Illuminates steadily in fault.
Remote Indicator Output	Polarity-sensitive output, directly connects to remote indicator (built in 10k resistor in series with max. output current 2mA); Flashes in alarming and does not illuminate in normal state.
Programming Method	Electronically addressed
Address Range	Occupying one address within 1~242
Wiring	Loop: two wire, polarity-insensitive Remote indicator: two-wire, polarity-sensitive
Smoke Sensitivity Range	Level 1: 1.38%~3.38%/ft Level 2: 2.25%~4.25%/ft Level 3: 3.12%~5.12%/ft
UL Required Environmental Temperature	32° F (0° C)~120° F (49° C) 0~95%, non condensing
Operating Environment Temperature	14° F (-10° C)~131° F (+55° C) 0~95%, non-condensing
Ingress Protection Rating	IP2X
Dimensions	Diameter: 100mm Height: 54.5mm (with base)
Mounting Hole Distance	45mm~75mm
Weight	About 110g

## Accessories and Tools

Model	Name	Product No.
P-9910B	Hand held programmer	10104894
DB-M01N	Common Detector Base	30209761
DI-M9402	Addressable Sounder Base	10105980
DC-M9402	Conventional Sounder Base	10106029
C-9314P	Remote Indicator	10102339
BP-9314P	Back Plate (for remote indicator)	30208096