Digital Intelligent Dual Heat Detector DI-9103

GST
Global System Technology PLC
The Intelligent Solution

CE

Meets the sensitivity requirement of EN 54 part 5 and part 6 European Standard

Unique pleasing with a low profile design, unobtrusive to complement modern building designs. The unit incorporates an intelligent processor that provides Algorithm map, Digital signaling, Drift compensation, Self Diagnosis and history log.

Secure and speedy communication through the on board processor enables the detector to make its own decision and sending data to the panel within a second, resulting in greater automation. The sensor and the panels utilized fuzzy logic providing an almost limitless cause and effect scenarios.

Electronic addressing and sensitivity adjustments can be done through Handhold Programming device (P-9910B), purchased separately, and can be modified in the panel.

Features and Benefits

Dual fixed temperature heat detector. Combining both fixed temperature and rate of rise heat detection in a single sensor.
As standard the fixed temperature is set to 66°C while the rate of rise is set to 6°C in one minute.
The rate of rise function can be switched off and the fixed temperature can be adjusted between 54 and 74 degrees C

1. Built in 8 bit microprocessor
2. Algorithm maps for false alarm rejection
3. Digital sensing
4. Secure and speedy communication
5. Drift compensation
6. Self diagnosis and history log
7. Electronic addressing
8. Duplicated address report
9. LED for 360º vision
10. Built in remote indicator output
11. Unique low profile design
12. Fixed temperature response is adjustable via hand held programming tools.
13. EN54 compliance

Technical Specifications

- Standard: EN54-part5
- Approvals: CE
- Protection rating: IP 32
- Operating voltage: 24Vdc Loop voltage
- Operating Current:
  Standby Current 0.8mA
  Alarm Current 1.4mA
- Operating temperature: -10°C to +50°C
- Sensitivity: 3 levels; I=58°C, II=66°C, III=72°C
- Address setting: Electronic addressing within 1-241, engage one address
- Relative humidity: 95%.
- Application: Indoor use
- Detecting range: 30 sqm for normal area; and 20 sqm for high risk
- Visual Indicator: twin LED, Red (lit steady when alarm, flashing at normal state)
- Material and colour: ABS, traffic-white
- Wiring: 1 pair non polarized
- Dimensions: diameter 100mm; height 41mm without base

Description

This detector is extremely reliable for application in places where may have high dust levels or smokey environments, making a normal smoke detector unsuitable , for example boiler/plant room, cars parks, kitchen, loading bays, furnace/kiln rooms.
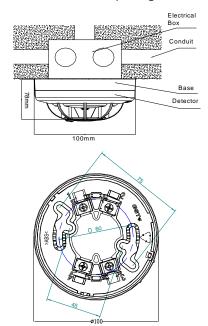
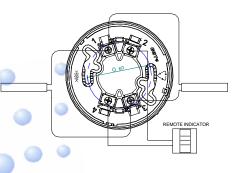# Digital Intelligent Dual Heat Detector DI-9103

Mounting Standard Base

The digital detector should be installed in compliance with all local codes or NFPA 72 National Fire Alarm Code, NFPA 70 National Electrical Codes, BS 5389 and EN54. The detector is mounted using our standard base DB-01 allows easy adjustment. Suitable for surface mount only, mount on standard 1gang electrical back box with a mounting hole of 45mm to 75mm spacing.

Wiring and Connection

Connect the wires to the required terminal according to the wiring diagram. Detector loop are   connected on terminals 1 and 3 while for the remote indicator output, connect the wire on terminals 2 and4.The cable must be fire rated type and the size depends on the wiring distance. Minimum size gauge 1.0mm²(18 AWG).
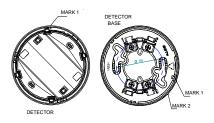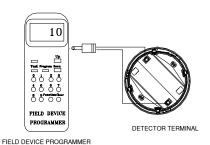

Detector Installation

Before installation verify the proper wiring and base are firmly mounted to prevent detector damage before the installation. Point the detector in the base by the mark-line and secure the detector in that position by rotating it clockwise until it reaches the next mark line.

Programming

The address and sensitivity of the detector can be programmed using GST handheld programmer (P-9910B), purchased separately. Connect the two wires of the handheld programmer to any two opposite terminals of the detector.

FIELD DEVICE PROGRAMMER

Selection of compatible Control Panels

Compatible with all GST Intelligent Fire Alarm Panels GST100, GST200, GST5000, GSTIFP8.

Ordering Information:

Part No	Description	Weight /Kg	Pack Qty per Box
DI-9103	Digital Dual Heat Detector with Remote Indicator	0.090	120
DB-01	Detector Base	0.049	360

MANUFACTURED IN ACCORDANCE WITH

Note: Specifications are subject to change without notice.

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