



TR91-02

Traceable Optical Smoke Detector

Features and Benefits

- EN54-7 Compliance.
- Trace The Exact Location
- Compatibility With Third Party Conventional Detectors
- Adjustable Sensitivity Parameters
- Aesthetic Design
- Microprocessor Technology
- Analogue and Digital Addressing
- Smart Linear Drift Compensation
- 360-degree Visual Indicator
- Removable Chamber
- Remote Indicator Output

Overview

TR91-02 TANDA traceable smoke detector is an advanced fire safety device designed to provide precise location tracking in the event of a fire to enhance safety measures in various environments. It represents the pinnacle of detection technology, ideally suited for a broad range of applications. Its exceptional linear response to diverse smoke patterns ensures compliance with the sensitivity requirements of EN 54 Part 7, the European Standard. Designed with an eye for aesthetics, the detector's sleek and discreet profile harmonizes with contemporary architectural styles.

At the heart of the unit lies a sophisticated processor, equipped with an Algorithm Map, integrated A/D Converter, Drift Compensation, Self-Diagnosis, and a comprehensive History Log. This intelligent system facilitates secure and rapid communication, empowering the detector with autonomous decision-making capabilities that enhance overall automation.

In critical fire situations, the embedded microprocessor meticulously analyzes incoming signals based on intensity and progression rate. It then cross-references this data with established fire scenarios and smoke pattern algorithms to deliver a prompt and reliable response. Upon verification of a fire event, the detector's LED indicator illuminates to reflect the sensor's status, simultaneously transmitting a communication signal to the control panel.

The **TR91-02** Designed to work with traceable function seamlessly with specific TR100 series TANDA fire alarm control panels, and with conventional function with any third-party conventional detectors or fire alarm control panel avoiding a unique compatibility issue.



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Technical Specification

certification	Comply with EN54:2018
Operating Voltage	24v (16v-28v)
Current consumption	Standby:40µA , Alarm:20 mA
Protocol/Addressing	Traceable
Indicator	Single LED / 360-degree Visual
Dimension/height	Diameter 99.7 mm / 57 mm
Operating Temp	-10°C to +50°C
Relative Humidity	0 to 95% Relative Humidity, Non condensing
Weight	145g (with Base), 90g (without Base)

Ordering information

Model	TR91-00
Picture	
Discription	Detector base
Compatible	TR91-02, TR91-03

