



TR104/TR108/TR112/TR116

Traceable Fire Alarm Control Panel

Key Features:

- **Standard Compliance:** Comply with EN54-2 and EN54-4
- **Location Tracing:** The traceable FACP can trace the exact location of a fire within a building. This precise identification helps emergency responders quickly reach the affected area.
- **Simultaneous Fire Detection:** Unlike conventional systems, the traceable FACP can detect multiple fires that occur simultaneously. This capability is crucial in large-scale or complex buildings where multiple incidents may happen concurrently.
- **Zone Configuration:** The traceable FACP typically has multiple zones (up to 16 zones). Each zone can connect to up to 25 traceable heat detectors, allowing for a total of 400 traceable smoke and heat detectors. These detectors can detect and trace fire locations sequentially.
- **Mixed Detector Types:** Operate with both traceable detectors and third-party conventional detectors within the same zone. Even if one detector detects a fire first, other traceable detectors in the same zone can also detect it and display the results on the traceable FACP.
- **Cost Effective:** Existing conventional fire alarm systems can be upgraded to traceable systems by simply replacing the FACP and detectors with traceable versions, without rewiring.

Overview

TR100 series TANDA Traceable Fire Alarm Control Panels are designed to trace the exact location of a fire, detect multiple fires that coincide simultaneously when they work with TANDA TR91 series traceable detectors, and can be integrated with conventional detectors without interfering with their operation.

TR100 series TANDA traceable FACP can manage multiple zones, each zone capable of connecting to 25 traceable smoke and heat detectors. These detectors can pinpoint the precise location of fires in sequence, providing a significant advantage in large-scale or complex buildings where quick identification of a fire's origin is critical.



TANDA UK Limited
80 COLEMAN STREET London | EC2R 5BJ
United Kingdom
T +44 845 116 2924
Email: info@tandauk.com
Web.: www.tandauk.com

TANDA UK LTD | D A T A S H E E T

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Benefits and Features

- **Modular Expansion:** Flexibility to scale system Capacity to meet diverse requirements.
- **Zone Configuration:** Supports 4, 8, 12, or 16 zone configurations, accommodating up to 25 detectors per zone for comprehensive coverage.
- **Communication Protocol:** Features an optional Modbus interface for seamless integration with repeater panels or third-party systems.
- **Display Interface:** Boasts a luminous LCD screen with large characters for clear and immediate readability.
- **Sounder Outputs:** Provides up to four sounder outputs, with options for either relay or transistor-based output circuits.
- **Input/Output Control:** Includes four programmable inputs and one programmable output for customized operational flexibility.
- **Design Aesthetics:** Compact and visually appealing design that enhances the installation environment.
- **Mounting Options:** Versatile mounting solutions, including both surface and recessed options.
- **Color Variants:** Available in three distinct colors - Grey, Black, and Red - to match a variety of decor styles.


Technical Specification

Certification	Comply with EN54-2 and EN54-4
Primary power input	Input Voltage 100/240VAC ,50/60Hz Input Current Consumption 2.1 A PSU Output to CIE 24VDC
Secondary powerinput (batteries)	2x 12V /24 AH
Input zones	8 input zone Fully monitored zones with EOL resistor 4.7 Khom, these 8 zones Expendables to 16 zones by using zone module
Zone capacity	Up to 25 device per zone
Recommended wiring	Fire cable 2 core 1.5mm2
Fault output	Type: normally open/close contact output
Alarm output	Type: normally open/close contact output Contact capacity: 2A/24v



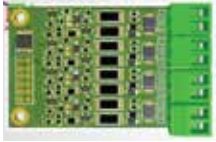
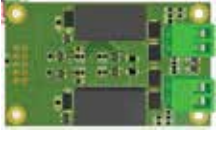

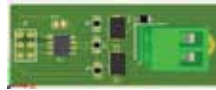
Sounder output	Output voltage: 24v Output current: 300mA in alarm End-of-line-resistor: 4.7kΩ
Aux. power output	Output voltage: 24v Output current: 300mA
Relay output	Additional NC/NO
Digital inputs	4 digital inputs
Protocol/addressing	Traceable
Display	LCD character
Operating temperature	-5°C~+45°C
Ingress protection rating	IP 40
Dimensions	321mm x 286mm x 90 mm
Weight	1.6 Kg

Ordering information


Model	Picture	Description
TR104		4 Zone Traceable Fire Alarm Control Panel
TR108		8 Zone Traceable Fire Alarm Control Panel
TR112		12 Zone Traceable Fire Alarm Control Panel
TR116		16 Zone Traceable Fire Alarm Control Panel



Optional Modules

Model	Picture	Description
TR100-ZB		4 Zone module, this module can be used for extending zone inputs to 8 or to 16
TR100-SBR		2 Sounder relay module, this module can be used for extending sounder outputs to 4
TR100-SBT		Sounder transistor module this module can be used for extending sounder outputs to 4
TR100-CB		Modbus Communication module

Programming Tool

Model	Picture	Description
TR99-00		The handheld programmer is used for giving addresses for zone devices(smoke,heat,MCP)

