



EXTINGUISHING PANELS – COMBINATION PANELS

RHINO 103 EXTINGUISHING CONTROL PANEL RANGE



RHINO 103
EXTINGUISHING CONTROL PANEL

DESCRIPTION

The Technoswitch RHINO103 Extinguishing Control Panel range is ideal for commercial and industrial applications requiring a reliable and robust fire detection and extinguishing solution. The RHINO103 range has been designed to comply with EN54 parts 2 & 4 and EN 12094. In addition, the panel has been third-party tested to verify compliance with the above standards.

The standard RHINO103 panels are housed in an attractive, modern ABS enclosure and are ideal for commercial applications. The enclosures are durable and have been designed for ease of installation.

A weatherproof enclosure, with or without a DIN rail wiring strip, is available for industrial/outdoor applications (see RHINO103 Weatherproof range datasheet for full details).

The RHINO103 Repeater Panels are housed in either an ABS or weatherproof enclosure and mimic all the master extinguishing panel's alarm indications. Up to seven repeater panels can be wired onto the communication bus in a "ring" configuration. The repeater panels are available without a built-in power supply. Each repeater has an onboard manual release call point.

The integral switch mode power supply has a wide AC voltage input range of 100VAC to 240VAC, making it ideal for widely fluctuating mains supply scenarios. The battery charging capabilities of the power supply allow for the connection of 7Ah batteries.

Each of the three zones can support up to 32 devices, and any combination of zones can be configured to trigger the single extinguishant output. Each zone can also be configured to operate as an intrinsically safe zone.

The panels offer General Fire and Fault Relays, three programmable relays, three programmable monitored sounder circuits, one programmable monitored input and a dedicated hold input.

The SOLAR software application customises the panel's programmable features, providing unsurpassed flexibility.

Comprehensive test and fault-finding features simplify maintenance – these include a one-man walk-test, a first-in-first-out 1,000 event log, and onboard status LEDs for pinpoint fault identification.

FEATURES

- 3 Zones; any combination can be configured for double-knock
- Onboard manual release call point
- USB port for event log download
- 1,000 event log
- Three programmable relays
- One programmable monitored input
- One dedicated hold input
- Three monitored sounder circuits
- IS zone compatible
- Walk-test
- Service/commissioning switch
- Key switch for user-level access control
- Connection of up to seven repeater panels
- SOLAR programming software
- 3-year warranty
- Repeater panel range available
- Weatherproof panel and repeater versions in a mild steel IP65 enclosure available





EXTINGUISHING PANELS – COMBINATION PANELS

RHINO103 EXTINGUISHING CONTROL PANEL RANGE

SPECIFICATIONS

Enclosure	ABS: Two-tone (White lid with Anthracite Grey RAL 7016 base)
Environmental	-5°C to 40°C
Humidity	95% RH, Non-condensing
Dimensions (H × W × D)	270 × 330 × 125 mm
Weight (excl Batteries)	± 2.1 kg
Cable Entries	Top: 6 × 20 mm, 5 × 25 mm Back: 4 × 20 mm, 2 × 25 mm
Key Switch	Enable Controls Extinguishing Control (Auto & Manual / Manual Only)
Event Log	1,000 Logged events
Mains Supply	100 to 240 VAC (± 10%), 50/60 Hz, 1.0 A max
Power Supply	27.5 VDC, Switch Mode, 1.2 A load, 0.5 A max battery charging
AUX Supply Output	27.5 VDC, 0.2 A
Battery Capacity	24 VDC, 7 Ah
Battery Charging Current	0.5 A max temperature compensated
Number of Fire Zones	3
Zone EOL	3k3 Ω
Zone Alarm Threshold	220 to 900 Ω (Nominal 680 Ω)
Sounder Outputs	3 × Rated at 27.5 VDC, 0.15 A each
Sounder EOL	3k3 Ω
Extinguishant Output	27.5 V DC, 1 A programmable for Metron, Solenoid and Aerosol
Countdown Auto or Manual Time	Programmable 0 to 60 seconds
Release Time	Programmable 10 to 300 seconds
General Fire Relay	30 VAC/DC, 1 A maximum
General Fault Relay	30 VAC/DC, 1 A maximum
Programmable Relays	3 relays rated 30 VAC/DC, 1 A maximum
Programmable Input	1 Fully monitored
EOL	3k3 Ω
Alarm Threshold	220 to 900 Ω (Nominal 680 Ω)
HOLD Input	1 Fully monitored
L-BUS Specification	
L-Bus Topology and Distance	RS485 ring network @ 1,200 metre max.
Number of Repeaters on L-Bus	7 (Seven)

ORDERING INFORMATION

Product Code	Product Description
RHINO103	3 Zone Fire/Extinguishing Control Panel, ABS
RHINO103-R	Active Repeater Panel for RHINO103, ABS
RHINO103-W	3 Zone Fire/Extinguishing Control Panel, Weatherproof
RHINO103-WDIN	3 Zone Fire/Extinguishing Control Panel, Weatherproof, DIN
RHINO103-RW	Active Repeater Panel for RHINO103, Weatherproof

• **DISCLAIMER:** Although the contents of our product literature have been prepared with the greatest care, Technoswitch can accept no liability whatsoever for any direct or indirect damages of any kind that may arise due to either errors or omissions in them, or amendments to products or other specifications following publication. © Technoswitch (Pty) Ltd



HEAD OFFICE — JOHANNESBURG
Cussonia Park, 3 Ridge Road, Laser Park, Johannesburg T +27 (0)11 794 9144 E info@technoswitch.co.za
CAPE TOWN T +27 (0)21 948 4575 ■ DURBAN T +27 (0)31 266 8843

www.technoswitch.co.za

Document: DS RHINO103 Standard ECP Range 230517 E & OE