

# PRECISION

## Sounder Control Module

VFD-504



### Features

- Single NAC output
  - Style Z (Class A)
  - Style Y (Class B)
- 24 VDC 1 Amp Output Rating
- EVAC speaker circuit support
- LED status indicator visible through cover plate
- PRECISION SLC device
  - Style 4, 6 or 7 wiring
- Easily installed
- Supervised power input
- Adds individual NAC output circuits on SLC
- DIP switch addressing

### Product Description

The PRECISION Sounder Control Module provides the flexibility to add notification circuits to the PROACTIV Fire Alarm Control Panel (FACP) System. The module which communicates with the PROACTIV system via the Precision SLC provides a single supervised addressable notification output circuit to supervise and control notification appliances such as horns, strobes and bells.

The Sounder Control Module is provided with external power from a UL 1481 Listed 24 VDC power supply. These supplies may be located in close proximity to the sounder module to save on wire gauge sizes or it may come from a centralized power supply and be controlled by the individual sounder control modules.

### Function

The sounder control module provides the PROACTIV system with supervised monitoring of load devices that require an external power supply to operate such as horns, strobes and bells. Each module is intended for switching applications involving 24 VDC or 70.7 Vrms Audio max.

Upon command from the PROACTIV system the Sounder control module will disconnect supervision and connect the external supply or amplifier across the load device.

Each module provides output circuit short circuit monitoring which protects the external supply from short circuit events.

The sounder control module mounts to standard double gang and 4 inch square electrical box hardware.

# PRECISION

## Sounder Control Module

VFD-504

### Fault Monitoring

In addition to the monitoring of open and short-circuit faults on the NAC wiring, the Sounder Control Module has a facility to monitor the presence and polarity of the external power supply. This is achieved by monitoring the presence of the 24 VDC power from the external supply. In audio applications this monitoring is not carried out by the module but rather is supervised by the amplifier itself.

### Mechanical Construction

The Sounder Control Module is supplied with the PCB mounted to a standard electrical box cover which mounts to a double gang or 4 inch square electrical box”.

One red module status LED is provided which is viewable through the mounting plate which flashes on poll and illuminates solid when output is activated.

### Ordering Information

#### PRECISION Devices

Description	Model	Description	Model
PRECISION LaserCOMPACT Detector	VLC-828	Remote Indicator	VFD-603
Photoelectric Smoke Detector	VFD-100	Switch Monitor Module	VFD-501
Ionization Smoke Detector	VFD-200	Priority Switch Monitor Module	VFD-502
Heat Detector	VFD-300	Mini Switch Monitor Module	VFD-506
Multi-sensor Detector	VFD-400	Priority Mini Switch Monitor Module	VFD-505
4-inch Mounting Base	VFD-000	Sounder Control Module	VFD-504
4-inch Relay Base	VFD-003	Input Output Monitor Module	VFD-503
4-inch 20D Isolator Base	VFD-004	Short Circuit Isolator	VFD-500
6-inch E-Z Fit Mounting Base	VFD-005	Short Circuit Isolator Base	VFD-001
6-inch Trim Ring	VFD-002	PRECISION Addressing Cards	PSP-2039

Note 1: Not all of the above products are available in all regions.

Note 2: The range of VESDA products is not included in the above list. Consult your local distributor or Xtralis office for more information.

### Specifications

#### Device Type

PRECISION Addressable device

#### Operating voltage

24 VDC

#### PRECISION SLC Current

1.0 mA Maximum Quiescent

1.0 mA Alarm

#### Power Supply

UL1481 Listed 24 VDC current limited power supply for each expansion card.

#### Mounting

4” sq or double gang electrical box

2 1/8” minimum depth

#### NAC Output

Regulated 24 VDC power limited 1A rating

2.2 Ω at 1A, maximum wiring resistance

47 kΩ, 0.5 W EOLR

#### Current consumption:

3 mA max at 24 VDC Quiescent

47 mA at 24 VDC Alarm plus output load

#### Output monitoring voltage

9–11 VDC (open-circuit condition)

#### Maximum PA sounder circuit voltage

70.7 Vrms

#### Dimensions and weight (surface mount)

4.4 inch x 4.4 inch x 1.2 inch

(113 mm x 113 mm x 30 mm)

3.0 oz (86 g)

#### Operating temperature

-4 to +158°F (-20 to +70°C)

#### Humidity (non-condensing)

0–95%

[www.xtralis.com](http://www.xtralis.com)

**The Americas** +1 781 740 2223 **Asia** +852 2297 2438 **Australia and New Zealand** +61 3 9936 7000  
**Continental Europe** +41 55 285 99 99 **UK and the Middle East** +44 1442 242 330

The contents of this document are provided on an "as is" basis. No representation or warranty (either express or implied) is made as to the completeness, accuracy or reliability of the contents of this document. The manufacturer reserves the right to change designs or specifications without obligation and without further notice. Except as otherwise provided, all warranties, express or implied, including without limitation any implied warranties of merchantability and fitness for a particular purpose are expressly excluded.

This document includes registered and unregistered trademarks. All trademarks displayed are the trademarks of their respective owners. Your use of this document does not constitute or create a licence or any other right to use the name and/or trademark and/or label.

This document is subject to copyright owned by Xtralis AG ("Xtralis"). You agree not to copy, communicate to the public, adapt, distribute, transfer, sell, modify or publish any contents of this document without the express prior written consent of Xtralis.

Doc. no. 10812\_02

Part: 29138

