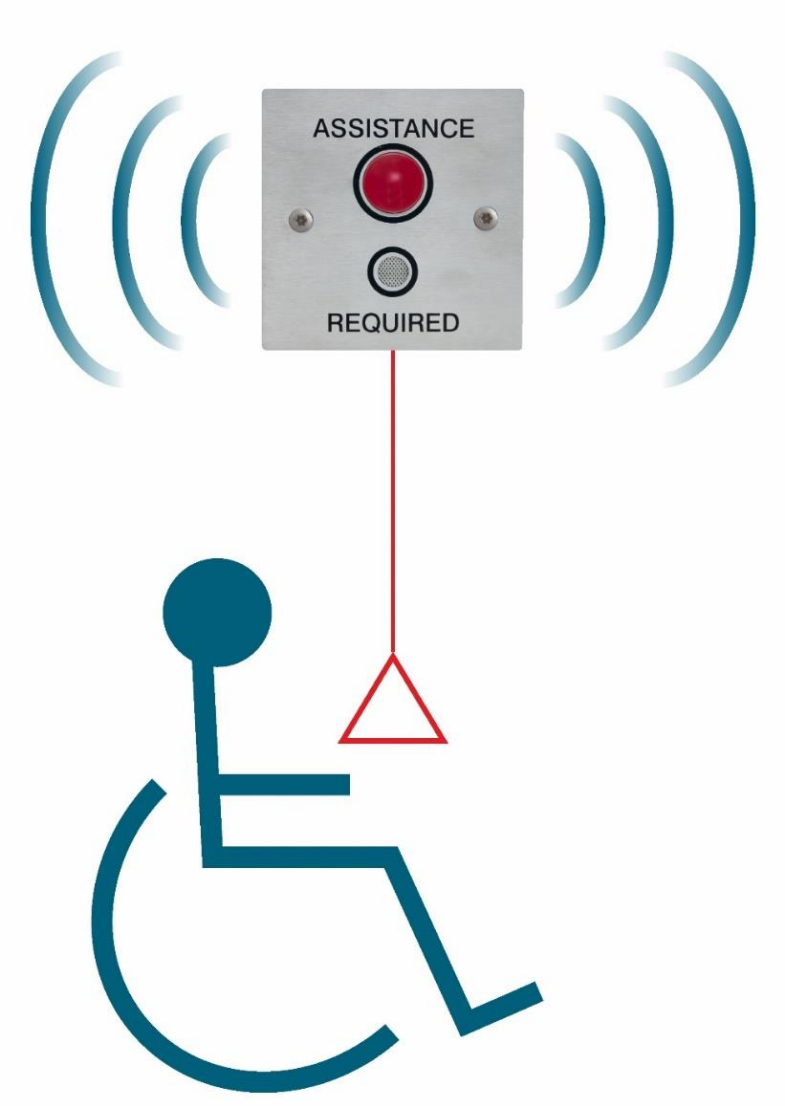
Folknoll Group Ltd.

EMERGENCY ASSISTANCE ALARMS



BS 8300 AND DOCUMENT M COMPLIANT
TOUGH, VANDAL RESISTANT
IDEAL FOR PUBLIC USE

CONTENTS

ISSUE DATE DESCRIPTION

V 1.00	04.01.2017	Original.
V 1.01	14.01.2017	Telephone reset updated.
V 1.02	20.02.2017	Images updated; combined systems updated.
V 1.03	20.10.2017	Antimicrobial options added, assist changed to assistance and document M compatibility added, wheelchair alarm strip changed to antimicrobial care, pilot alarm strip added.
V1.04	03.01.2018	Images of indicator panel with mute button changed to images of indicator panel with acknowledge button, text changed to acknowledged remotely, etc.
V1.05	13.08.2018	Simple network interface (SNI) added, NIOS updated, discreet alarm strip removed, text changed to emergency assistance.
V1.06	14.06.2019	Updated for BS 8300-2:2018
V1.07	28.01.2022	Braille and tactile text available on request added to Typical Alarm System

THIS DOCUMENT

This document is the Product Information data sheet for Folknoll Group Ltd Emergency Assistance Alarm systems.

ABOUT FOLKNOLL

We are a UK based design, manufacturing and installation company. We have been producing communication, alarm and control systems since 1975. All of our products and systems are designed for toughness, reliability, easy installation, simple configuration, straightforward operation and low maintenance. As original manufacturer, all of our product ranges can be customised to suit your application. Including custom engraved panels, additional features and special systems.

GET IN TOUCH

Please contact us for further information about our wide range of products and services and find out how we can provide a solution for you.

ADDRESS: **Old North Rd, Royston HERTS, SG8 5TD, UK**
TEL: **+44 (0) 1763 234567**
EMAIL: **sales@folknoll.co.uk**
WWW: **www.folknoll.co.uk**

1 EMERGENCY ASSISTANCE ALARMS

WHAT IS AN EMERGENCY ASSISTANCE ALARM?

An emergency assistance alarm is a system that allows persons in distress to call for help. Assistance systems are typically located in accessible toilets, bedrooms, showers, etc. providing extra security and reassurance for users of these facilities. On larger sites, local systems may also be monitored at a remote permanently staff location to ensure a response to alarm activation.

TYPICAL ALARM SYSTEM

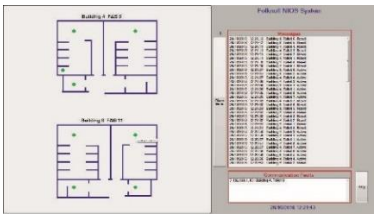
A typical system comprises a pull cord and reset button located inside a room, with a beacon / sounder mounted outside the room to alert staff and indicate the source of the alarm.

PULL CORD AND BEACON SOUNDER

If assistance is required, the user pulls the cord. The system goes into alarm and activates a beacon / sounder located outside the room to attract attention.

REMOTE MONITORING

Larger sites may have remote monitoring located in receptions, security rooms, etc. to attract the attention of staff. We offer remote monitoring over dedicated cables, telephone networks, IP networks and combinations of the above. Alarms may be acknowledged but not cancelled remotely, requiring staff to attend the location of the incident to reset the alarm.



DOCUMENT M ACKNOWLEDGE

An acknowledge button may be fitted outside the room and / or at a central monitoring location. Staff responding to an alarm call, press the acknowledge button silencing the beacon / sounder for two minutes. Reassuring the user that the call has been received and help has is on its way / arrived.

RESET

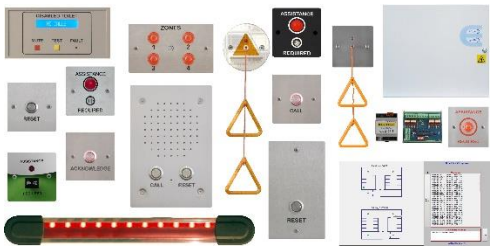
After the issue precipitating the alarm has been resolved, the reset button located inside the room is pressed to cancel and reset the alarm. The system is now ready for the next alarm activation. If an acknowledged alarm is not reset within two minutes the alarm beacons and sounders are reactivated to reinforce the initial request for help.

Brallie and tactile text available on request.

AT FOLKNOLL

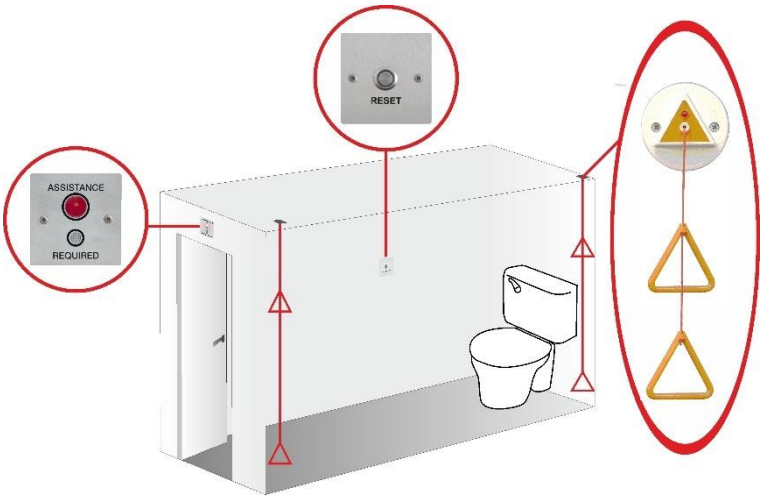
We offer a wide range of emergency assistance alarm modules in a variety of styles and finishes including antimicrobial.

Enabling us to build the right system for you.



2 BASIC (COST-EFFECTIVE)

For locations with minimal requirements, we recommend our cost-effective basic systems. These offer simple to operate and install, vandal resistant, emergency assistance alarm systems.



Cost effective

Tough vandal resistant

BS 8300 compliant

Screw terminal connection

Range of activators

Range of annunciators

Antimicrobial pull cords and finishes available

Ideal for public places

RANGE OF ALARM CALL POINTS

One or more pull cords, call buttons or other activators to enable users to call for assistance. Activators are usually located within easy reach of users in wheelchairs, users who are standing and users who have fallen on the floor.

RANGE OF BEACON SOUNDERS

One or more beacon sounders located outside the room to attract attention and help staff identify the source of the alarm.

RESET UNIT

A basic reset unit to enable staff to reset the alarm. Usually located inside the room to encourage staff attendance in response to an alarm.

POWER SUPPLY UNIT

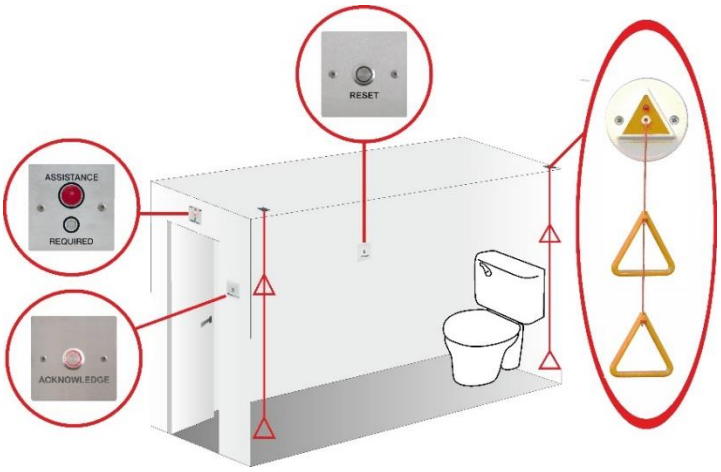
A battery backed PSU to maintain operation in the event of a mains supply fail.

SIMPLE OPERATION

- The user activates the alarm by pressing a call point or pulling a pull cord.
- The beacon sounder is activated to attract attention.
- Staff respond to the alarm, then press the reset button when the incident is resolved.

3 ENHANCED (FULLY FEATURED DOCUMENT M)

For locations that require compliance with 'The department for communities and local government 9 March 2016 statutory guidance approved document M volume 2' we recommend our fully featured, enhanced system.



Tough vandal resistant

BS 8300 compliant

Document M compatible

Acknowledge function

Heartbeat option

Antimicrobial pull cords and finishes available

Ideal for public places

SAME RANGE OF ALARM POINTS

Located within reach of users in wheelchair, users who have fallen and users who are standing.

SAME RANGE OF BEACON SOUNDERS

Document M requires 'the emergency assistance call signal outside the toilet compartment is located so that it can be easily seen and heard by those able to give assistance;'. To comply with this requirement one or more beacon sounders should be located outside the room to attract attention. Depending on the layout of the site, remote monitoring may also be advisable, please refer to sections 5, 6, 8, 9 for our remote monitoring options.

ADDITIONAL AUDIBLE REASSURANCE

Our enhanced reset has an internal buzzer that mimics the action of the beacon sounder to give the user a positive 'audible alarm activation indication' inside the room to reassure the user.

ADDITIONAL ACKNOWLEDGE / ACCEPT FUNCTION

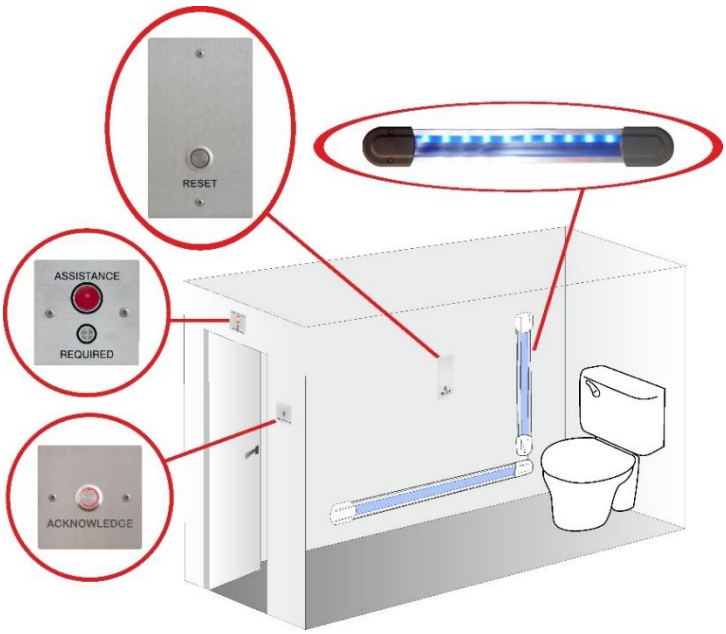
Document M requires 'visual and audible indicators to confirm that an emergency call has been received;'. Our enhanced system offers an acknowledge button allowing staff to 'accept' alarms. When an alarm is acknowledged, beacons stop flashing and sounders are muted, reassuring users that help has arrived and making verbal communication easier. If the alarm has not been reset within two minutes the alarm is reactivated.

ADDITIONAL HEARTBEAT OPTION – GREAT FOR MAINTENANCE

We also offer an option to periodically flash all LEDs and beacons, to reassure users and staff that the alarm system is powered and operating correctly. Please specify when ordering.

4 ILLUMINATED ALARM STRIPS

Illuminated alarm strips offer a great alternative to pull cords. Strips are more vandal resistant and avoid the risks associated with using pull cords as ligatures. Strip illumination, which is battery backed, draws attention to the strip and can be useful if the mains fails in a toilet or other windowless room.



Tough vandal resistant

BS 8300 compliant

Illuminated alarm strips

Choice of colours

Acknowledge function

Fault monitoring

Range of annunciators

Antimicrobial alarm strips and finishes available

Ideal for anti-ligature environments

STRIPS

Alarms are activated by pressing a strip anywhere along its length. Strips can be installed on long walls, staircases, etc. covering a much greater area than a single pull cord. Multiple strips can activate the same alarm, allowing systems with strips on separate walls and parallel strips at different heights.

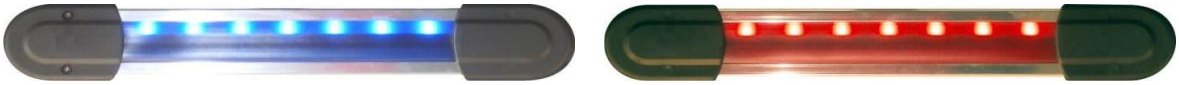
MOUNTING

Alarm strips can be mounted horizontally, at an angle or vertically. Brackets, corners, bends, etc. are available for changes in direction.

RANGE OF STRIPS

We offer a range of colours, illumination, IP rating and antimicrobial options in two profiles:

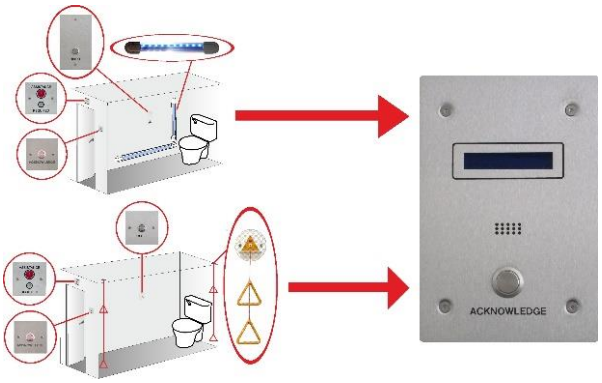
- **Care**: Wheelchair-resistant profile, for low-level mounting in public locations.
- **Safe**: Standard profile, for mounting at higher level, ‘easy-to-press’, ideal for attack alarms.



IP67 variants are available for pools, saunas, showers, etc.

5 ALARM MONITORING OVER DEDICATED CABLES

Ensuring alarms are noticed and responded can be a real problem in some environments, e.g. noisy shops, factories or seldom used quiet stairwells. For this reason Folknoll offer remote monitoring, to report alarms where people will notice them.



Tough vandal resistant panels
(Can be installed in public areas)

Audible alert and alarm source indication

Optional alarm acknowledge / mute function

Optional fault monitoring

Ideal for larger sites

SIMPLE MONITORING

We offer simple standard and custom LED indicator panels with integral sounders to alert staff. These can be mounted in reception areas or anywhere that is permanently staffed to ensure the alarm is noticed.

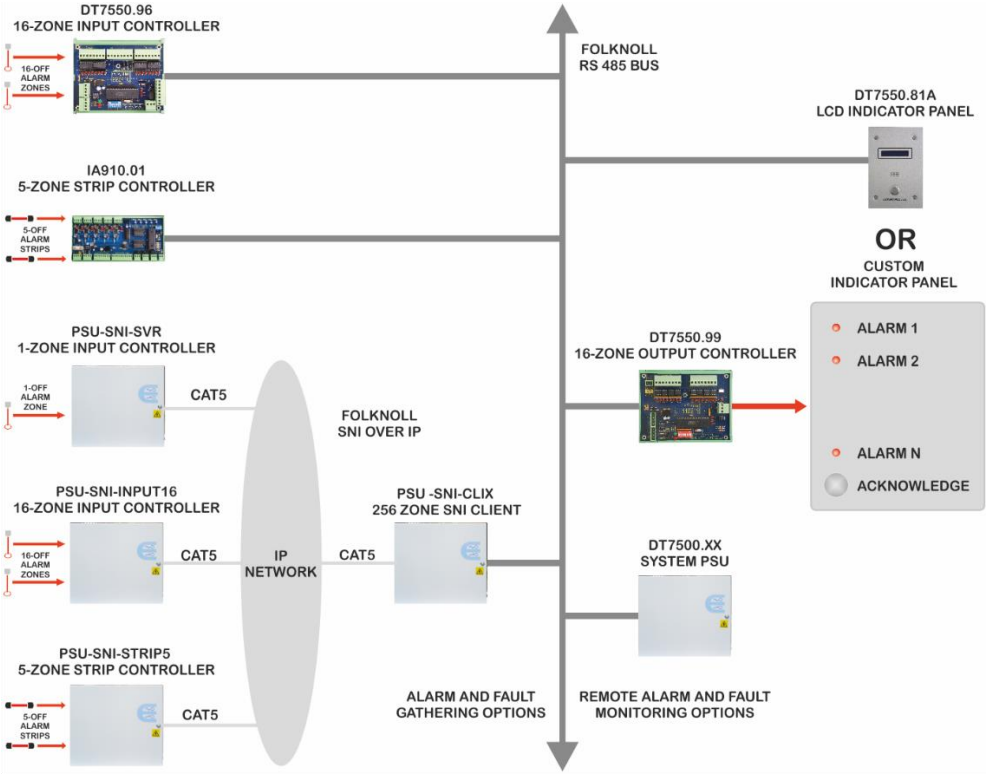
FULL FEATURED MONITORING

For larger sites we also offer a range of LCD and panels. These panels have a built-in sounder to alert staff and an LCD to indicate the location of the alarm. Options include mute, acknowledge / accept buttons, keyed switched, additional beacons/ sounder.

For document M compatibility we usually recommend the acknowledge button option, offering a means of activating ‘visual and audible indicators to confirm that an emergency call has been received’.

6 RIOS ALARM MONITORING OVER RS485

For larger sites, remote alarm monitoring systems can be extended and cabling simplified by using the RS485 standard. To take advantage of this standard Folknoll offer a range of RIOS controllers which can be combined to construct site-wide systems with up to 256 alarms.



Up to 256 alarms

Single, 16-zone, and alarm strip input controllers

Standard LCD indicator panels and custom LED indicator panels

Optional alarm acknowledge / mute function

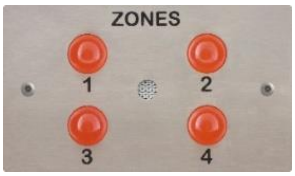
Optional fault monitoring

Can be combined with SNI for transmission over IP

Ideal for larger sites

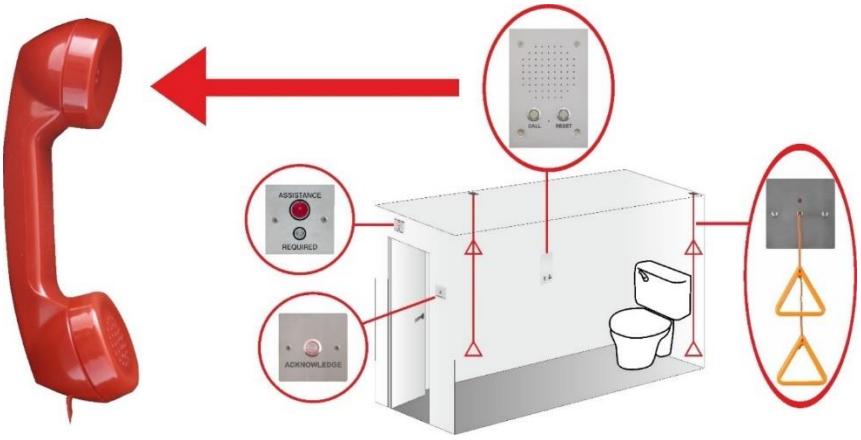
SAME MONITORING OPTIONS

RIOS offers the same range of fully featured standard LCD and custom LED indicators panels, with optional acknowledge and fault monitoring.



7 ALARM MONITORING OVER TELEPHONE NETWORKS

Our auto-dialer systems take advantage of existing telephone systems to save cabling and gain PABX functionality.



Cost effective

Uses telephone cabling

Operator can talk to users

Take advantage of telephone system functions

Ideal for large sites

AUDIO COMMUNICATION

Alarms systems are cabled to the nearest telephone network access point. If the call button is pressed or an alarm is activated, the reset unit dials a pre-configure number to alert the duty operator. If the user is able to speak, he/she can explain their situation to the operator. The operator is then able to arrange an appropriate response, increasing the effectiveness, improving user experience.

SAVE ON CABLING, MAXIMISE FEATURES

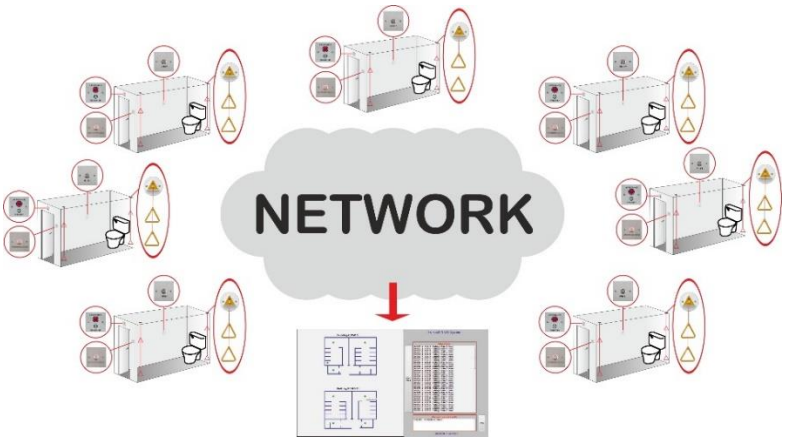
Using the existing telephone network, reduces cabling costs, disruption, etc. and enables use of telephone facilities, call forwarding, recording, etc. Calls can be made offsite or to mobile phones held by site staff.

EASY EXPANSION

Each emergency assistance alarm is an ‘independent system’, new alarms can be added without extra control equipment or configuration, simply plug into a telephone socket.

8 ALARM MONITORING OVER IP NETWORKS

IP based systems use existing network infrastructure to save cabling, transmsision costs, etc.



User existing or dedicated network

Add alarms to existing systems

Construct new systems with minimal cabling

Ideal for large sites, or multiple locations

Folknoll NIOS workstations

Compatible with RIOS controllers

LARGE SYSTEMS

Ideal for large buildings or multi-site establishments with centralised or off-site monitoring.

COST-EFFECTIVE

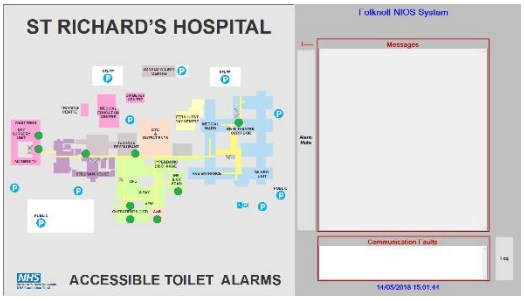
Takes advantage of your existing infrastructure to reach existing awkward locations and provide monitoring of alarms throughout your site. Saves on cabling, transmission, installation and maintenance costs and conforms with modern building cabling practice.

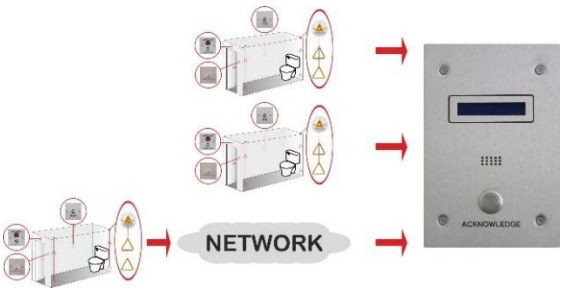
COMPATIBLE

Network monitoring can be added to any of our emergency assistance alarm systems including basic, enhanced and alarm strip systems.

FULL SYSTEMS

We offer a range of IP interfaces, networked PC workstations, event logs PCs, and other network devices to realise solutions.



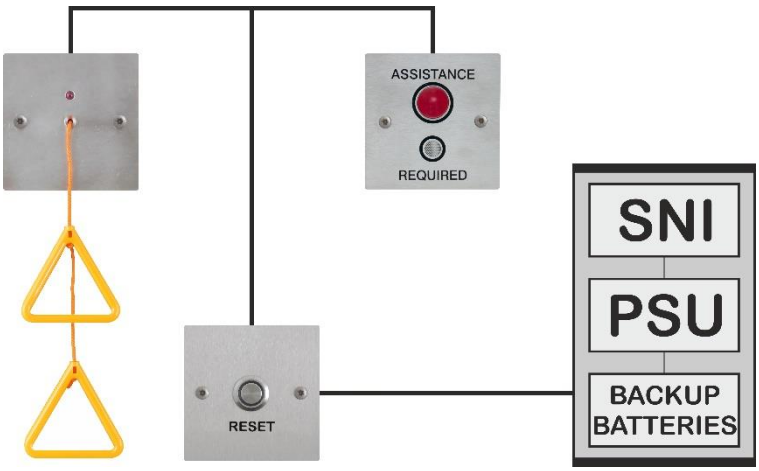


EXTEND TRADITIONAL CABLING

We also use IP infrastructure to extend existing systems, e.g. adding a new alarm point, 'hopping' between buildings, etc. Reducing disruption and costs when adding to the system.

9 SNI SIMPLE NETWORK INTERFACE

Our simple network monitoring interface (SNI) adds cost-effective document M compatible remote monitoring and acknowledge function to new and existing emergency assistance systems.



Remote monitoring

Document M compatible acknowledge

Utilises standard IP network, saves installation costs, disruption, etc.

Supplied fully configured

Works with a range of alarm activation equipment, including shower buttons and alarm strips

SNI

Our simple network interface mounts inside the local system PSU and connects to a nearby network switch.

REMOTE MONITORING

For small systems (up to 8 alarms) the local SNI is monitored by a ‘paired’ remote SNI, please refer to sections 11 SNI 121 Simple Network Monitoring and 12 SNI 828 Simple Network Monitoring. For larger systems (up to 256 alarms) the local SNIs are monitored by a Network IO Controller please refer to section 12 SNI 12X Simple Network IO Controller. SNI systems usually have an indicator panel to alert operators and provides an acknowledge button.

ACKNOWLEDGE / ACCEPT

All SNI systems offer a document M compatible acknowledge function. The acknowledge function enables local and remote panels to 'accept' and temporarily mute alarms, giving reassurance that help is on its way and making verbal communication easier. If the alarm has not been reset within two minutes the alarm is reactivated. The remote monitoring device cannot usually reset alarms. Emergency assistance alarms should only be reset at the 'reset unit' to ensure staff attendance in the event of an alarm activation.

CONFIGURATION

All SNIs and network IO controllers are supplied fully configured to your requirements, simply install and connect to your network.

SIMPLE FAULT MONITORING

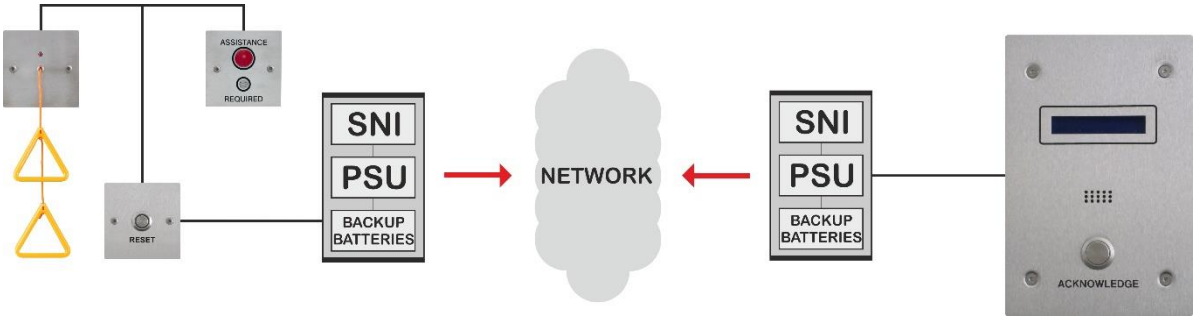
If simple communications fault reporting is required please refer to section 12 SNI 12X Simple Network IO Controller.

NIOS

For more comprehensive remote systems with PC workstations, optional mains and battery status, remote alarm strip fault monitoring please refer to sections 13 NIOS Network Interface and 14 NIOS Network Monitoring Workstation.

10 SNI 121 SIMPLE NETWORK MONITORING

Simple network document M monitoring for a single alarm. Ideal for small sites, shops, waiting rooms, etc.



Document M compatible alarm monitoring with acknowledge function for single alarm

Cost-effective, simple solution, SNI paired interfaces, static IP, same subnet

Utilises standard IP network, saves costs, disruption, etc.

Can be fitted to existing stand-alone systems

Works with Folknoll LCD indicator panels and compact LCD indicator panels

SIMPLE 121 NETWORK MONITORING

Our simple 121 networking solution offers document M compatible remote monitoring and acknowledge function for a single alarm over a standard IP network.

REMOTE OPERATOR STATION

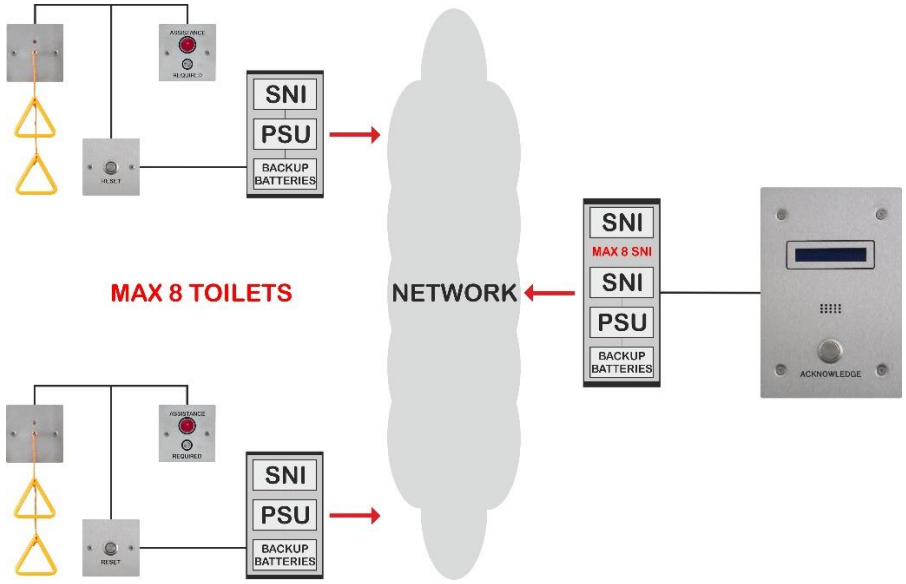
SNI systems are usually operated (monitored) from a remote indicator panel or compact indicator panel. The local SNI is linked across the network by a ‘paired’ SNI mounted in the indicator panel PSU or compact master station.

DESIGN CONSTRAINTS PARAMETERS

- Up to 8 repeat indicator panels can be linked over RS485
- 2 static IP4 addresses required per alarm
- All devices must be on same subnet
- If alarm strips are used, a dual gang reset is required
- If simple device offline indication is required please refer to section 13 SNI 12X Simple Network IO Controller
- If remote alarm strip fault indication is required please refer to sections 13 NIOS Network Interface and 14 NIOS Network Monitoring Workstation
- If mains and battery status indication is required please refer to sections 13 NIOS Network Interface and 14 NIOS Network Monitoring Workstation

11 SNI 828 SIMPLE NETWORK MONITORING

Simple network document M monitoring for up to 8 alarms. Ideal for small building, offices, etc.



Document M compatible alarm monitoring with acknowledge function for up to 8 alarms

Cost-effective, simple solution, SNI paired interfaces, static IP, same subnet

Utilises standard IP network, saves costs, disruption, etc.

Can be fitted to existing stand-alone systems

Works with Folknoll LCD indicator panels and compact LCD indicator panels

SIMPLE 828 NETWORK MONITORING

Our simple 828 networking solution offers document M compatible remote monitoring and acknowledge function for up to 8 alarms over a standard IP network.

REMOTE OPERATOR STATION

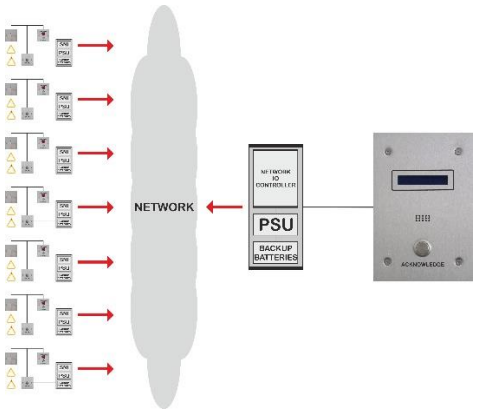
SNI systems are usually operated(monitored) from a remote indicator panel or compact indicator panel. The local SNIs are linked across the network by ‘paired’ SNIs mounted in the indicator panel PSU or compact master station.

SYSTEM PARAMETERS

- Up to 8 alarms per indicator panel
- Up to 8 repeat indicator panels can be linked over RS485
- 2 static IP4 addresses required per alarm
- All network devices must be on same subnet
- If alarm strips are used, dual gang resets are required
- If simple device offline indication is required please refer to section 11 SNI 12X Simple Network IO Controller
- If remote alarm strip fault indication is required please refer to sections 12 NIOS Network Interface and 13 NIOS Network Monitoring Workstation
- If mains and battery status indication is required please refer to sections 12 NIOS Network Interface and 13 NIOS Network Monitoring Workstation

12 SNI 12X SIMPLE NETWORK IO CONTROLLER

For larger systems we offer our network IO controller simple network document M compatible monitoring for systems with up to 256 alarms. Ideal for larger locations and specialist systems.



Document M compatible alarm monitoring with acknowledge function for up to 8 alarms

Cost-effective, simple solution, SNI paired interfaces, static IP, same subnet

Utilises standard IP network, saves costs, disruption, etc.

Can be fitted to existing stand-alone systems

Simple device monitoring, with device off-line indication

Works with Folknoll LCD indicator panels and compact LCD indicator panels

SIMPLE 12X NETWORK MONITORING

Our simple 12X networking solution offers document M compatible remote monitoring and acknowledge function for up to 256 alarms over a standard IP network.

REMOTE OPERATOR STATION

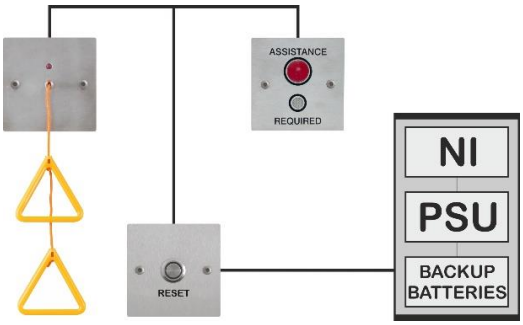
SNI systems are usually operated(monitored) from a remote indicator panel or compact indicator panel. The local SNIs are linked across the network to a network IO controller capable of monitoring up to 256 alarms. The network IO controller is mounted in the indicator panel PSU or compact master station and requires a single network access point.

DESIGN CONSTRAINTS

- Up to 256 alarms per indicator panel
- Up to 8 repeat indicator panels can be linked over RS485 or IP
- 1 static IP4 address per alarm + 1 static or DCHP IP4 address for network IO controller required
- Same subnet, NAT, DDNS, partial DCHP configuration options
- If alarm strips are used dual gang resets are required
- If remote alarm strip fault indication is required please refer to sections 12 NIOS Network Interface and 13 NIOS Network Monitoring Workstation
- If mains and battery status indication is required please refer to sections 12 NIOS Network Interface and 13 NIOS Network Monitoring Workstation

13 NIOS NETWORK INTERFACE

Our NIOS network monitoring interface (NNI) adds cost-effective document M compatible remote monitoring and acknowledge function to new and existing emergency assistance alarms.



Document M compatible remote monitoring with acknowledge function

Utilises standard IP network, saves installation costs, disruption, etc.

Supplied fully configured

Works with a range of alarm activation equipment, including shower buttons and alarm strips

Optional mains and backup battery status monitoring

Optional alarm strip fault status

NNI

Our NIOS network interface mounts inside the local system PSU and connects to a nearby network switch.

REMOTE MONITORING

The local NNI is monitored by a NIOS pc, the NIOS PC offers a plan-based GUI, optional mains and battery status monitoring, and optional alarm strip fault monitoring. please refer to section 14 NIOS Network Monitoring Workstation.

ACKNOWLEDGE / ACCEPT

All NIOS systems offer a document M compatible acknowledge function. The acknowledge function allows local or remote devices to 'accept' and temporarily mute alarms, giving reassurance that help is on its way and making verbal communication easier. If the alarm has not been reset within two minutes the alarm is reactivated. The remote monitoring device cannot usually reset alarms. Emergency assistance alarms should only be reset at the reset unit to ensure staff attendance in the event of an alarm activation.

NIOS FAULT MONITORING

The NIOS system offers a range of fault monitoring options including network device off-line, mains status, backup battery status, alarm strip status. Ideal for large site with heavy maintenance schedules

CONFIGURATION

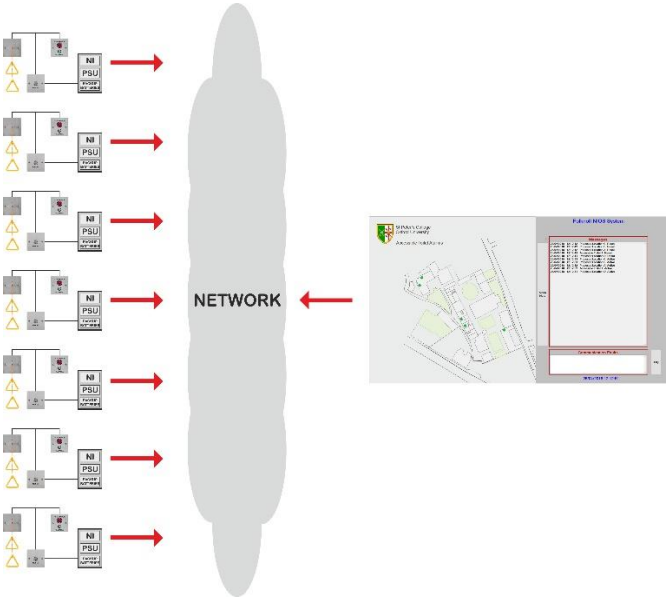
All NIOS NIs an are supplied fully configured to your requirements, simply install and connect to your network.

DESIGN CONSTRAINTS

- 1 static IP4 address + 1 static or DHCP IP4 address for NIOS workstation required
- Same subnet and partial DCHP configuration options
- If alarm strips are used dual gang resets are required
- If mains and battery status indication is required, our optional power status board is required

14 NIOS NETWORK MONITORING WORKSTATION

Our network monitoring software provides a plan-based graphical workstation, with alarm source indication, event logs, fault, mains fail and battery status reporting and other configurable features. Ideal for larger locations and specialist systems.



Graphical alarm source indication

Alarm status list,

Audible alert

Fault monitoring

Event Log

Optional mains and battery backup status monitoring

Standard PC hardware and Windows® 7 or 10 operating system

Optional wall mounted touch screen

NIOS

Our NIOS PC Workstation enables operators to monitor remote emergency assistance alarms and faults over standard IP networks.

ALERTS

The workstation alerts operators to alarms by generating a warning tone and indicating the source of the alarm on a site plan. Enabling an efficient response to activations.

ACKNOWLEDGE / ACCEPT

The acknowledge function allows local or remote devices to 'accept' and temporarily mute alarms, giving reassurance that help is on its way and making verbal communication easier. If the alarm has not been reset within two minutes the alarm is reactivated. The workstation cannot usually be used to reset alarms. Emergency assistance alarms should only be reset within the room using the 'reset button' to ensure staff attendance in the event of an alarm activation.

FAULT MONITORING

NIOS provides network and communications fault reporting to aid maintenance and help ensure reliability. Options are available for mains status, backup battery status alarm strip cabling faults, and other alarms.

EVENT LOG

All alarms and faults are recorded in an event log which can easily be viewed on the workstation.

CONFIGURATION

The workstation is supplied fully configured for your application. Our software comes with easy-to-use, built-in configuration pages to allow for maintenance, system updates, etc.

BMS

The NIOS application offers an output stream for third-party systems, enabling our emergency assistance alarms to be incorporated into BMS and other systems.

15 COMBINED SYSTEMS

COMBINED SYSTEMS

Combining systems reduces control room space, cabling, installation costs, etc. whilst simplifying operation and maintenance. Enabling the provision of practical, cost-efficient, BS compliant systems. Ideal for smaller buildings and complexes.

POSSIBLE COMBINATIONS INCLUDE

- Disabled refuge EVC
- Emergency assistance
- Fire telephone
- Building alarms system

All systems are monitored from a single master station.

All your monitoring in one place.

SINGLE FIRE PANEL SIZED ENCLOSURE

All control boards, PSUs, batteries, etc. mounted inside the monitoring station. Only mains and outstations, alarms, etc. required for a complete system.

Saves money, installation costs, space, etc.

MONITORING KITS

We also offer remote panel kits that can be built into panels, consoles and other enclosures.

Add emergency assistance and other alarm monitoring to third-party systems.

16 NOTES

ABOUT FOLKNOLL

We are a UK based systems design, manufacturing and installation company. Since 1975 we have been supplying tough, reliable, practical, alarm and control systems for the private and public sectors. All of our products and systems have been designed for easy installation and low maintenance by experienced engineers. As original manufacturers, all of our products and systems can be customised to suit your requirements. We also offer individual annotation, custom engraving and special finishes for all of our equipment.

GET IN TOUCH

Please contact us for further information about our wide range of products and services and find out how we can provide a solution for you.

Folknoll Group Ltd
+44 (0) 1763 234567
Old North Rd, Royston, HERTS, SG8 5DT, UK
www.folknoll.co.uk
enquiries@folknoll.co.uk