

SAFETYNET Alarm Processor

SafetyNet Alarm Processor (SNaP) allows important status information from alarm systems and industrial equipment to be transmitted to key personnel through radio, mobile telephones as a simple text message or an email.

SNaP is a standalone rack mounted unit which can operate by itself or as part of a larger SafetyNet digital radio scheme offering lone worker, personal alarms and personal location services.

Its principal aim is to provide maintenance and support staff with a quick and convenient means of monitoring alarms remotely through a local digital radio terminal or mobile telephones.

SNaP is a direct pager replacement for the ageing Bosch FASS system installed at many industrial sites but with many other advanced features included.

The unit can also control output signals remotely. Equipment can therefore be activated remotely by SNaP via a secure telephone text message or from a radio keypad.

Typical applications;

- ◆ Water Treatment sites, SCADA linked alarms, gate access entry from radio or telephone
- ◆ Manufacturing industry, warning of equipment failure, onsite pager replacement
- ◆ Campus fire and intruder alarm monitoring to local security personnel
- ◆ Alarm monitoring on remote sites with lone worker using digital radio e.g. windfarms



Key Features

- Alarm text messages to onsite digital radio or mobiles
- Alarm to email facility
- FASS pager replacement

- Fire and security alarm panel monitoring
- BMS and SCADA protocols supported; TAP, ESPA 4.4.4, XML
- Raw data serial printer port decoding
- Hard wired interface for direct machine connection
- Remote switching capability from radio or mobile

- Easy to programme and monitor through local GUI
- Windows based unit
- Flexible licensing
- Up to 6 input channels per unit

Technical Overview

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SNaP can communicate with IP based SCADA or BMS systems or one or more serial ports from industrial equipment, fire alarm panels, pager units or a basic printer output from a machine. SNaP includes a number of algorithms to decode messages in any free text format and some of the more readily used industry standard protocols such as ESPA 4.4.4 and TAP. SNaP deciphers the text messages from within the data stream and converts to an easily read text message. Where a data feed is not available, an I/O module can be added to directly connect to hard wired signals and convert physical outputs from a machine or a mimic panel to a set of defined text messages. The text message can be sent to a number of subscribers defined and alarms can be repeated until acknowledged by a member of the team.

The unit comes as standard with a licence to connect to a SafetyNet Digital radio scheme. As part of the SafetyNet Digital family a powerful set of functions including lone worker, personal alarms, location services and telephony access can build a very powerful system.

SNaP can also be used standalone and can send notifications to other devices or systems by simply adding the required hardware and licence; mobile radio, GSM modem or email over an IP link.

By adding the /I32 module and /TRIG software options remote control of signals connected to SNaP is possible. This could be used to activate a gate solenoid for access to a site, a CCTV feed for investigating an intruder alarm, turning on pumps or activating any other equipment onsite.



Specifications

SNaP is housed in a 19" rack mounted module containing a power supply and dedicated processor bundled with:

- ◆ Compact PC running Windows 8 OS with SS HDD
- ◆ SNaP/S2. 2 serial ports for input devices (one activated)
- ◆ SafetyNet Digital IP interface

Power: 220-240VAC, 1.6A
Dimensions: 430 x 360 x 90mm
Weight: 5-10kg (depends on modules fitted)



Other modules are added to increase input channels, output devices and greater functionality

Hardware Options:

| | |
|----------|---|
| SNaP/S4 | Four port hardware if required |
| SNaP/MOB | Fixed mobile interface kit and license |
| SNaP/I32 | 32 input module opto-isolated/ 8 outputs |
| SNaP/GSM | GSM DWG2000 modem and software license (SIM required) |

Licenses:

| | |
|------------|----------------------------------|
| SNaP/INP+ | Additional input devices license |
| SNaP/TRIG | Remote trigger functionality |
| SNaP/EMAIL | Email processor |

Digital Radio technology supported:

- ◆ Hytera DMR
- ◆ MOTOTBO
- ◆ NEXEDGE



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