

SATELNODE X8S Local Area Radio Alarm Receiver

Characteristics

SATELNODE X8S provides alarm detection. It is equipped with two different output types - there are eight (8) continuously monitored open contact relays and an RS-232 interface. The relays can be used to monitor the SATELCODE 8i transmitters, and the RS-232 is for monitoring transmitters together with a sophisticated PC-program. The messages can even be conveyed further as SMS-messages to a GSM-phone.

SATELCODE 8i sends a diagnostic (i.e. "transmitter alive") message in user selectable time intervals. SATELCODE 8i attaches its current status information (the status of alarm inputs, battery etc.) to the diagnostic message.

This built-in feature enables you to verify the condition of your alarm

system easily. The SATELNODE X8S receiver can process practically any number of alarms. Simply by increasing the number of SATELCODE 8i transmitters the SATELCODE/ SATELNODE alarm transfer system can be extended.

In order to reduce the probability of collisions between simultaneously arriving signals in large systems it is, however, advisable to group the radio modems in "cells" including a receiver and thousands of transmitters.

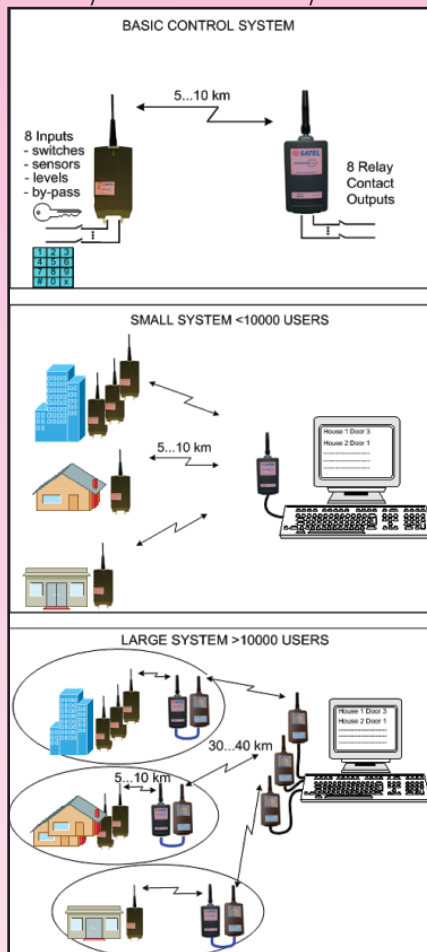
Easy to set up, simple to use

The configuration of the SATELCODE 8i is straightforward. The basic operation parameters, including the address, status and the sequence of diagnostic message as well as the output power and radio channel, are normally set at the factory. When necessary, most of them can be changed by the user.

When installing a SATELCODE/ SATELNODE system, special care should be taken in selecting the

location of the antennas. The common solution is a 1/4 wave antenna installed at any elevated spot with clear space around.

In a city environment, the transmission range in local area transfer of alarms is about 5-10 kilometres. In rural areas, ranges up to 15-20 kilometres can be easily achieved. By using directional high gain antennas, the range can be increased.



Technical Specifications

SATELCODE 8i and SATELNODE X8S complies with the international standard EN 300 113

	SATELCODE 8i	SATELNODE X8S
Frequency range	140 ... 170 MHz	
Channel spacing	12.5 / 25 kHz	
Frequency stability	± 2.5 ppm	± 5 ppm
Output power	0.5, 1, 2 or 4 W	
Method of modulation	FSK	
Operating voltage	+10 ... 14 Vdc	
Current consumption	1.7 A	350 mA
	100 mA standby	
Interface connector	DIN41651-16 male	D15 female
Inputs	8 programmable alarm	
	1 by-pass	
Outputs	8 programmable relay contacts	
	open/closed or opto-isolated	
	RS-232	
Programming interface	RS-232	
Temperature range	-25 ... +55 ° C	
Antenna connector	SMA 50 ohm, female	TNC, 50 ohm, female
Size H x W x D	125 x 57 x 16 mm	137 x 67 x 29 mm
Weight	125 g	250 g

Manufacturer:

SATEL Oy, Meriniitynkatu 17, P.O. Box 142, FI-24101 SALO, FINLAND
Tel: +358 2 777 7800, Fax: +358 2 777 7810, E-mail info@satel.fi
www.satel.fi