System Description:

The Micro Instruments STAY AWAKE SWITCH is a device used to keep personal awake that performs important duties, like nurses and security personal at security control rooms or control points.

The unit is also available with an optional built in GSM-SMS module - ** See Stay awake switch + GSM **

The reset switch is tamper proof on all versions so the push button switch cannot be bypassed by personnel. (eg. Keeping the reset switch pressed will result in an alarm condition)

The unit have a “silent panic alarm” function by pressing the button when the unit does not request a reset from an elapsed time window, no sound will be generated but the relay will activate to trigger other alarm systems, camera systems or to send a SMS in case of the Stay-Awake switch +GSM is used
Working principle:

The unit is housed in a metal wall mountable enclosure and comes with a standard 16Vac external alarm power supply so no dangerous voltages is near the user device with an internal charger circuit and internal battery backup to function during power outages.

The Stay awake switch runs a random timer with user adjustable(min and max) time. Once the random time ran out the first piezo buzzer will sound and the led will light up, resulting in a audio and visual indication to reset the unit so the operator have to walk to the unit to reset the device.

The unit will sound this first piezo buzzer at a decreasing time rate (faster beeps) between sounds with an increase in beep time to warn about the reset condition and that the random time have elapsed.

By resetting the unit the device will acknowledge this by a short double tone of the first piezo buzzer and the unit selects a new random time within the user programmable time window.

Failure to reset the unit within the given time will result in the 2nd louder buzzer to be activated together with the Relay output to trigger external alarm systems or cameras if necessary and will stay active until the person push the reset button.

DAY/NIGHT Function
By connecting the day/night sensor – the unit will operate at night and will automatically switch off at the break of day.

The unit can operate 24/7 by not connecting (disconnecting) the day/night sensor supplied with the unit. (fail safe design if sensor is damaged or unplugged by personal)

SILENT PANIC MODE:
Silent panic condition by pressing and releasing the reset button, the led next to the push button will activate for 3 seconds confirming the signal and the internal Relay will activate to trigger other external alarm systems but the piezo sounder will be silent.

The Silent PANIC mode is also active during day time even if the unit is disabled by the day/night sensor.
Stay awake switch setup:

Fit the unit to the wall where personal will have to get up and walk to the unit to reset the unit

Fit the day/night switch connector to the unit (without the day/night sensor operation will be 24hrs)

Select DIP2,3 or 4 for the min and max random time window

DIP 1 = Switch system on/off
DIP 2 ON = Random time between 5 and 10 minutes
DIP 3 ON = Random time between 8 and 18 minutes
DIP 4 ON = Random time between 12 and 25 minutes

Connect the 16Vac power supply to the unit and switch the main power on to the transformer

Switch DIP1 on the printed circuit board to the ON position – system on

Close the unit by screwing the lid back into place

Specification:

Operating voltage: 220VAC with internal charger and battery backup

Battery operating time +- 3 days without 220Vac power

Sound output:

Buzzer 1(warning buzzer) = 85dB at 10cm distance

Buzzer 2(main alarm) = 95dB at 30cm distance

The unit selects a Random time in between the minimum and maximum time as per DIP switch setting on the printed circuit board.

Only one DIP switch from DIP2 to DIP4 should be in the on position at any time.

The Relay output is an isolated contact output rated 10AMP at 125VAC or 28VDC

L = 177mm
W =142mm
H = 47mm
Weight = 1.31 Kg