

Securitex Automotive Solution Technologies division
Securitex Mobile Intelligent Surge Protector (Model: SMISP-1)



The Securitex Mobile Intelligent Surge Protector was designed and manufactured by Securitex Electronic Systems Engineering (Auto-Security-Surge-Technology department). What is SMISP-1 some may ask and what situation will this device needed and finally how to install them etc.

We understand that when installing electronic systems in vehicle like Automobile entertainment system, Global Positioning System (GPRS), CCTV with DVR system in buses and trucks. CCTV system on containerized truck and communication devices etc. This sensitive equipment will be subjected to massive surges during the vehicle start and stop. These extremely high surges or we “call spike” can overtime damage the electronic component and cause premature malfunction. In more severe cases the damage of these equipment is almost instantaneous.

Securitex Mobile Intelligent Surge Protector can prevent these surges to even reach the equipment. The system come with built-in Primary protection circuit using relay that is control by preprogrammed timer and Secondary protection circuit if the primary protection fails using Transient Voltage Suppression technologies. (TVS) Devices are designed specifically for the protection of electronic systems from the destructive effects of Lightning, Electrostatic Discharge (ESD), Nuclear Electromagnetic Pulse (NEMP) and Inductive Switching. These TVS devices are constructed from low leakage components and high-energy absorption capability from 300 watts up to 648,000 watts. The system will cramp the voltages at up to 30VDC. Securitex SMISP-1 have built-in programmable timer relay to turn on and off equipment before or after starting of the vehicle. This logic is fully programmable as we use built-in Microchip.

With Securitex SMISP-1, you can be absolutely sure that your system install in the vehicle are well protected.

Our SMISP-1 specification as follows:

Securitex SMISP-1 (surge protection c/w relay)

2 relay output channel

* Channel 1 activated 20 Seconds after ignition ON and deactivated 10 Seconds (Optional 300 to 600 Seconds depend on model) after engine cut-off (This out put is use for powering the system. The activation and deactivation time can be preset or programmed)

* Channel 2 output 1 sec pulse when engine cut-off detected.

(This output can be use for shutting down system that needs proper shutdown process)

- Channel 1 up to 10A at 24V
- Channel 2 up to 5A at 24V
- Quiescent current < 10mA
- 24VDC fuse rating 6.3 amp
- 3 LEDs indicator (shows the stages of the system)
- Size = 90mm x 51mm
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Connection

S & S	This terminals are use to send a pulse to turn off devices prior to the power shutting down when the Key Switch is turn off
0V & +OUT	This terminals are to be connected to devices, this output provide the 24VDC power after 20 seconds when the key switch is turn ON. When the Key switch is turn OFF the power will cut out after 10 seconds. (note all this activate and deactivate timing can is programmable)
0V & +IN	This terminals are to be connected to the vehicle battery terminal Ground to 0V and Positive to +IN.
K	This terminal is to be connected to the bus Key Switch