

DSD-080 EARTHQUAKE SECURITY PANEL

DATAKOM DSD-080 Earthquake Security Panel is a high-tech device, which monitors seismic motions as well as fire and gas leakage.

The device provides control signals in order to give audible alarm, shut off natural gas, turn off generators, elevators and other equipment whose operation generate risks.

DSD-080 incorporates highly sensitive dual axis seismic sensors. The unit is maintenance free and capable of making self-test. The earthquake sensing specifications of DSD-080 conforms to both ANSI Z21.80 (1981) and ASCE 25-97 standards.

DSD-080 operates on mains with a battery backup. The unit provides automatic battery charging feature. During long mains failures, if batteries get low, the unit gives audible and visible alarm.



DSD-080 has two zones fire sensor input. Up to 20 detectors can be connected to each zone. The device also monitors connection problems of the fire sensors and provides audible and visible warning in case of a mistake. DSD-080 is capable of getting alarm signal from other alarm systems.

APPLICATIONS: home automation.

BEFORE EARTHQUAKE	DURING EARTHQUAKE	DURING FIRE OR GAS LEAKAGE
Gives audible alarm, Operates siren,	Gives audible alarm, Shuts off gas, Operates siren, Turns off generators and elevators, Feeds emergency lights,	Gives audible alarm, Shuts off gas, Operates siren,

SENSORS

DSD-080 incorporates highly sensitive dual axis seismic sensors. The unit is maintenance free and capable of making self-test. The earthquake sensing specifications of DSD-080 conforms to both ANSI Z21.80 (1981) and ASCE 25-97 standards

BATTERY BACKUP

DSD-080 operates on mains with a battery backup. The unit provides automatic battery charging feature.

During long mains failures, if batteries get low, the unit gives audible and visible alarm.

FIRE DETECTORS

DSD-080 has two zones fire sensor input. Up to 20 detectors can be connected to each zone. The device also monitors connection problems of the fire sensors and provides audible and visible warning in case of a mistake.

EXTERNAL ALARMS

DSD-080 is capable of getting alarm signal from other alarm systems.

IMPORTANT NOTICE:

Early sensing time depends on the distance of the unit to the seismic epicenter. Generally it is possible to have 1 second early warning time for each 8 kilometers. For example if the epicenter of the earthquake is at a

distance of 40 km, it is possible to give an early warning 5 seconds before the arrival of the destructive S (secondary) waves.

Due to its high sensitivity, the early warning may give false alarms. For example if an earthquake of small magnitude occurs, the unit will possibly sense it as the P (primary) waves of a strong earthquake.

TECHNICAL SPECIFICATIONS

Operating voltage: 220V-AC (from 170V to 280V)

Power consumption: max. 22VA

Battery charging voltage: 27.3V(+/-0.2V)

Battery charging current: max. 300mA

Battery low limit: 22V(+/-0.3V)

Current consumption from battery: max. 70mA (all terminals disconnected)
Additional 40mA for each energized relay.

Switching: 5 high power relays for different functions.

Audible alarm: 85dB/1m buzzer

Diagnostics: Self-diagnostics at power on and reset

Operating temperature: -10 to 70 degrees C

Relative humidity: 10% to 90%

Weight: 1900 grams (approx.)

Dimensions: 220x150x70 mm (W x H x D)

Seismic sensor specifications

Sensor: Dual axis micro-machined polysilicon accelerometers.

Operation limits: +/- 2g.

Withstanding limit: > 50g.

Acceleration Threshold: Earthquake threshold: Adjustable from 0.03g to 0.25g.
Early warning threshold: Adjustable from 0.007g to 0.030g

Detection delay: < 0.5s

Frequency range: 0.5Hz to 25 Hz.

Fire detector group

Operating voltage: nominal 24V-DC

Non-detection: 2-12 mA

Detection threshold: 16 mA.

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