

DSD-080

SEISMIC SECURITY PANEL



DESCRIPTION

DATAKOM DSD-080 Seismic Security Panel monitors seismic motions of a strong earthquake and provides relay output signals from it. Output signals are used to shut-off critical installations as natural gas and LPG systems, generators, elevators and the like.

The unit helps reducing damages of a probable earthquake. On its graphical display screen, the unit shows system status.

DSD-080 incorporates highly sensitive triple 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), ASCE 25-97 and TS-12884(2002) standards.

DSD-080 operates on mains with a battery backup. 24V/1.2A-h batteries are incorporated to the unit. The unit provides automatic battery charging feature. During long mains failures, if batteries get low, the unit gives audible and visible alarm.

FEATURES

- **Wide operating voltage range (85-305VAC)**
- **Conformal to international earthquake standards**
- **Triple axis motion detection**
- **Automatic self-test**
- **Internal audible warning**
- **Internal 24V battery**
- **5 programmable relay outputs (5Amp)**
- **Visual indicators for battery status**
- **Wide operating temperature range (-10...70°C)**

TECHNICAL SPECIFICATIONS

Operating voltage: 85 to 305VAC

Supply power: 4W maximum.

Battery charge voltage: 27.5VDC (+/-0.2V)

Battery charge current: 100mA. maximum

Low battery voltage limit: 22V. (+/- 0.3V)

Current drain from battery: 15mA. max from 24VDC (All relays passive) Additional 6mA for each energized relay.

Battery capacity: 24VDC, 1.2A-h

Operation from battery: >24 hours (typically 72 hours)

Self test: At power-on and reset.

Switching: 5 relay outputs (5A / 30VDC / 250VAC)

Audible warning: 85dB/1m buzzer.

Operating temperature range: -10 to +70 °C

Relative humidity: 10% to 90% (non condensing)

Weight: 1900 grams (approximative)

Dimensions: 192 x 120 x 65mm (W x H x D)

Sensor Specifications

Sensor type: Triple axis polysilicon semiconductor acceleration sensors.

Sensor operating limits: ±2g.

Sensor failure limit: more than 50g.

Acceleration threshold: TS12884, ANSI Z21.80 (1981), ASCE 25-97

Detection delay: 0.5sn. maximum

Frequency range: 0.5Hz to 25Hz



REV-01