



EARTHQUAKE SAFETY SYSTEMS, INC.

www.eqsafetysys.com

MASTER SEISMIC CONTROLLER Model MSC-T

INDUSTRIAL QUALITY SEISMIC MONITORING & SHUTOFF SYSTEM

Emergency Control System for TOXIC GAS Shutoff (TGO Compliance)



Complete control panel comprising:

- UL 508 Reserve power system
- Front panel indicators for power and seismic trip
- Local & remote activation control.
- Intelligent digital tri-axial seismic sensor, field adjustable trip setpoints.
- Stores Peak Ground Acceleration data in memory.
- SCADA ready for simple field installation.

DESCRIPTION:

A completely assembled, ready to install, stand-alone seismic control panel for interface with virtually all types / brands of fire alarm and toxic gas monitors. Local control and indicators for system testing. Local and / or remote control and monitoring of system status.

The digital tri-axial seismic sensor measures earthquake intensity in “g” force, and stores Peak Ground Acceleration values (PGA) in memory for future engineering analysis. Filtering devices make it immune to industrial vibrations such as heavy equipment etc.

When triggered, a control relay output signal interfaces directly with the client’s PLC, fire alarm panel, toxic gas monitor, etc. **This control relay normally remains latched (for safety reasons), until reset by operator.** Various custom logic schemes can be accommodated.

In the event of AC power loss, the integrated UPS typically provides 8 hours of autonomous power supply depending on the number and type of front panel indicators required.

Every system is SCADA ready with terminations for applicable functions.

FEATURES:

Fully assembled design allows for rapid on-site installation and control wiring termination.

Local controls and status indicators for power and seismic trip alarm.

On-board industrial power supply and battery back-up unit are NYC Fire Department approved.

Solid-state sensor records Peak Ground Acceleration values in memory for future evaluation.



When Earthquakes Strike ...

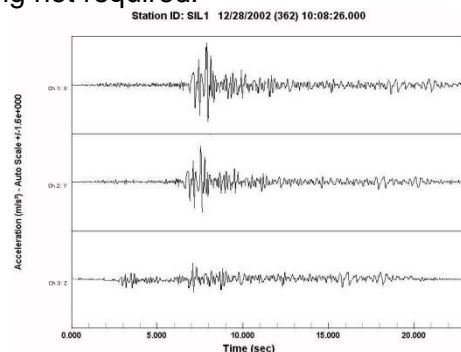
Trust ESS ...

MASTER SEISMIC CONTROLLER Model MSC-U

SPECIFICATIONS

- Seismic Standards:** Compliance with all nominated seismic standards is achieved with this intelligent and flexible, state-of-the-art technology.
- Sensors:** Solid state, triaxial accelerometer in three orthogonal axes (X,Y & Z). Detects vertical “P” and horizontal “S” wave accelerations. Captures *Peak Ground Acceleration* (PGA) values upon exceeding setpoint. Time history data recording module optional.
- Frequency Response:** 0.5Hz to 15Hz. Digital filter protects from industrial vibrations.
- Setpoints:** User selectable from 0.025g to 1.0g on each axis.
- Communications:** RS-232C Serial port. Industrial quality modem optional.
- Diagnostics:** Self-diagnostics at power on and reset. LED indicators: “Power on”, “Service required”.
- Control Outputs:** Three (3) independent output relays, user selectable setpoint control on X,Y and Z axis. N/O or N/C (rated 10amps, 250 VAC), dry, isolated contacts, and 12 VDC signals are standard. User selectable momentary (0-60 seconds) or latched output control.
- Power Supply (UL):** 120 VAC, 50 / 60 Hz (US spec) or 220 VAC, 50 Hz. Solar optional. Battery capacity and **charging system scaleable** to client’s application. **Maintenance-free batteries**.
- Physical:** Size, 20” W X 20” H X 12” D (varies with battery capacity). NEMA 4 std., NEMA 4X stainless optional. Fully gasketed doors, two security latches on each cabinet. Status indicators: Fault, A/C power loss, Seismic trip, DC Power “On” Operating temperature, -25° C to +50° C. Humidity, 0% - 100% (non-condensing). Weight, 110 lbs. including battery (approx).
- Installation:** Via concrete anchor bolts attached to pre-drilled aluminum baseplate provided. Panel may be wall-hung in some circumstances (consult factory for details). Precise leveling not required.
- Options:** Various custom logic schemes / redundancies using flow, pressure, leak detection & level monitoring sensors as a positive feedback. Industrial quality communications modem.

*(Subject to change).



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