ISIMET Seismic Monitoring Controller

The ISIMET Seismic Monitoring Controller monitors for seismic activity and transmits signals to turn OFF services to a facility that if left ON after a seismic event with potential breakage in piping or circuits may cause damage to the facility.

The unit incorporates an adjustable time delay device that allows for extremely brief seismic or similar activity from resulting in an unwarranted shut down of vital utilities.

A low current low voltage backup battery is included with all units where 12-VDC latching solenoids are incorporated into the system. This backup battery insures that services controlled by one of these solenoids will be turned OFF in the event of seismic activity even when electrical power has been disrupted.

ENCLOSED INDUSTRIAL CONTROL PANEL NO. E-258342

Enclosure Specifications:

NEMA 1 gray powder coated Enclosure is intended for flush mounting within an area protected from weather. A stainless steel wall panel provides an auxiliary panic button for disruption of controlled utilities even when there is no seismic activity. The unit is also equipped with either a keyed or push button reset switch that will reactivate the downed utilities.

Operation:

The Seismic Monitoring Controller remains dormant unless seismic activity is detected over a brief period of time. Once this detection occurs, a 12-VDC shutdown signal is transmitted to latching solenoid valves which control the integrated utilities. Then a 120-VAC shunt signal is transmitted to a shunt-trip breaker to turn OFF all electrical service to the facility. Services controlled by these valves typically include but are not necessarily limited to domestic water and fuel gas services.

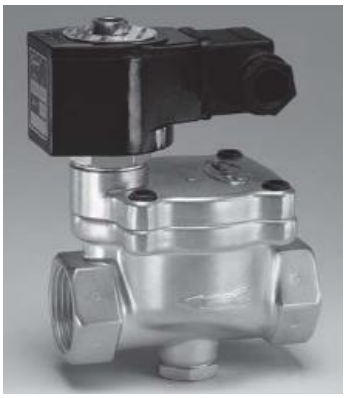
Once seismic activity has ended and an opportunity to inspect the facility for damages that may be caused by the seismic activity, it becomes necessary to locate the main shunt-trip breaker for the facility and manually reset that breaker. Once that has been accomplished then resetting the ISIMET Seismic Monitoring Controller can be accomplished by either re-keying or the pressing of the reset switch. All services are now restored.

Optionally, the system can be configured to transmit a 120-VAC signal to latch OFF a manual-reset fuel gas solenoid valve. To restore fuel gas service to the facility it will be necessary to manually reset this valve.

Optional Configuration:

All of the features and capabilities of the ISIMET Seismic Monitoring Controller can be incorporated into the Style 3 of the ISIMET Residential Control Unit.

Seismic Sensor



Typical 12 VDC Latching Solenoid Valve

Add-On Components:
Solenoids, relays and Contacts are sold separately.

Wiring Information and Instructions:
Enclosures are provided with ISIMET Control Circuit Board, Time Delay PCB and Pulse PCB as application requires.
Field wiring required from base of Seismic Monitoring Unit to operated Solenoids and Shunt-trip Breakers. Breakers may be field provided.

Important!
All local electrical codes must be followed when installing this enclosure and making the wiring connections.
Verify that the electrical supply is disconnected prior to making the wiring connections or servicing enclosure.
Equipment should be installed and serviced by skilled craftsmen that are licensed in the jurisdiction in which the unit(s) are placed.

MODEL NUMBER DESCRIPTION

SMC Series
Seismic Monitoring Controller

SMC - 1 2 2 2 - B

SERIES
SMC Series

ENCLOSURE STYLE
1 - Stand Alone Device
2 - Integration into an RLA Unit

MOUNTING STYLE
1 - Surface Mount
2 - Flush Mount

RESET METHOD / OPTIONS
K - Keyed Switch
P - Push Button Switch
B - Battery Backup

SOLENOIDS CONTROLLED
0 - None
1 - Fuel Gas Solenoid Only
2 - Fuel Gas and Domestic Water Solenoids
3 - Water Solenoid Only

TIME DELAY FOR OPERATION
1 - 1 Second
2 - 2 Second
3 - 3 Second
4 - 4 Second
5 - 5 Second
(Recommend 2 Second)

NOTES:
Units are intended to operate a Maximum of two Latching Solenoids, a Fuel Gas and Domestic Water Solenoid. Shunt Electrical Circuit Breakers are provided seperately or field provided. All Solenoids for SMC units should utilize ISIMET 12-VDC Latching or Manual Reset Coils.

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