Earthquake alarm device with a P-wave early warning algorithm

And an estimated intensity algorithm

EQ-Alarmer

01 Introducing EQ-Alarmer

- This product can be integrated with existing seismometers operated by institutions to estimate the on-site seismic intensity at the installation location
- It utilizes existing seismic data without installing additional seismometer, earthquake warnings can be issued at low cost according to the installation environment, and a mobile application can be used for rapid earthquake warning transmission
- The estimated intensity algorithm has been verified by domestic seismic experts to ensure alert reliability
- To ensure the reliability of the information acquired, It displays together the API provided by the Korea Meteorological Administration
- This device receives APIs from national disaster warning agencies such as the Korea Meteorological Administration and calculates the estimated intensity of the location where the EQ alarmer is installed based on the APIs data. in case of even an earthquake event is not detected by connected seismometer, enabling early warning like an estimated intensity and arrival time of S wave through receiving API from Korea Meteorological Administration

Product Specification

- Processor : Intel 9th
- Core : 1.1-3.4 Ghz Dual
- Display : 12.5″ Touch Display
- Storage : 500 GB(SSD)
- Input port : Ethernet 2 Port
  Serial 1 Post
- USB : USB 3.0×2
- Installation Type : Wall-mounted
- Alarm Output : 3-stage LED, Voice output
- Algorithm : Estimated Intensity Prediction
  P-wave earthquake pre-warning
  Emergency Structural Health Monitoring (Option)
- Contact Terminal : 2 contact point
- Power : AC 220V
- Size : (D)364 (W)70 (H)320
- Wireless Communication : WiFi , Bluetooth
- Battery : 2-4 hour

Product Features

○ Real-time seismic measurement data collection and monitoring function

○ Estimated intensity value of the location where this device is deployed by linking with the existing seimometer

○ 3-stage alarm issuance function like " Caution, Concern, Serious"

○ Real-time weather and earthquake warning information through API provided by the Korea Meteorological Administration

○ Contact signal output and linkage function with in-house broadcasting system considering user convenience

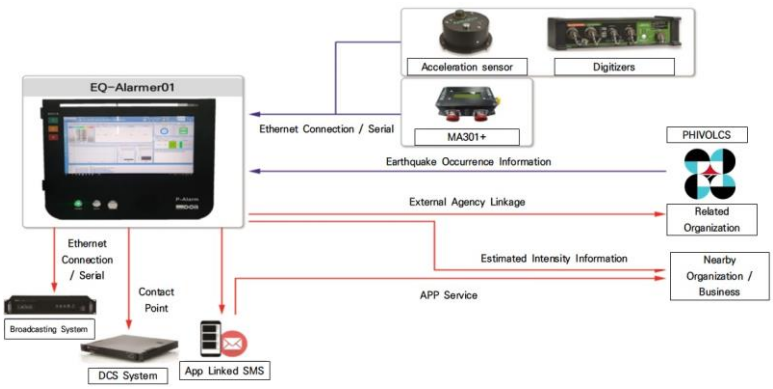
※ In case of emergency building damage assessment function, it is provided after checking whether it is applicable depending on the environment of the installation site

Functions for installation points (optional)

• Only EQ-Alarmer Installed: Estimated intensity alarm, earthquake alarm

• EQ-Alarmer + seismometer (3) Installed : Estimated intensity alarm, Earthquake Early Warning, Structural Health Monitoring (SHM)

System Configuration Diagram



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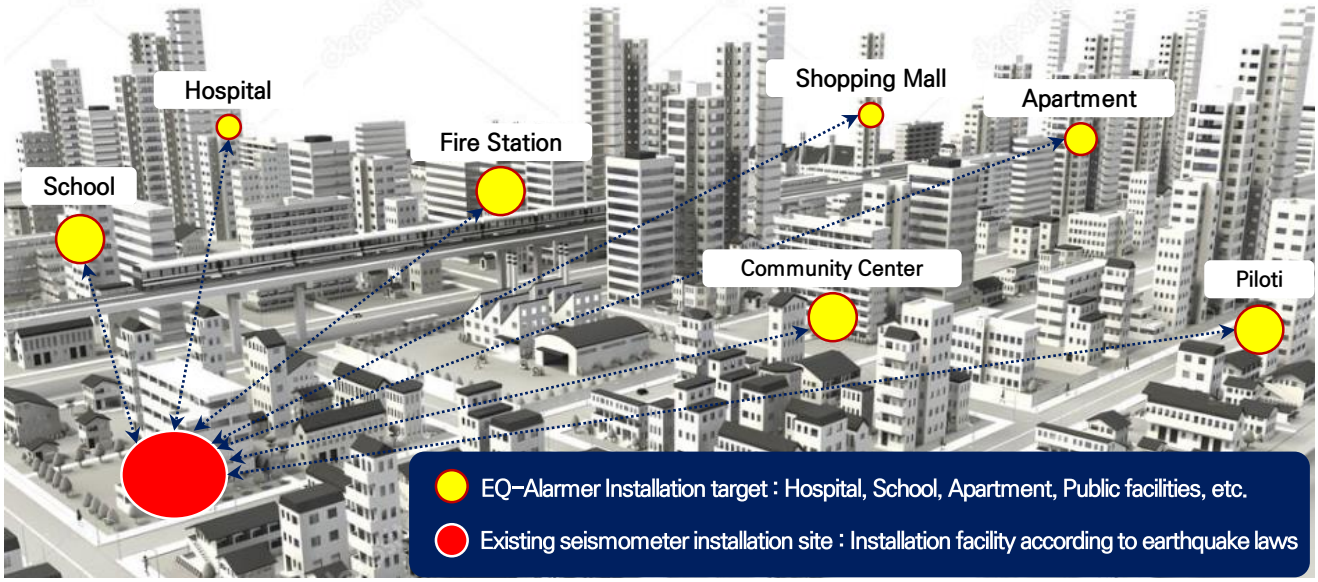
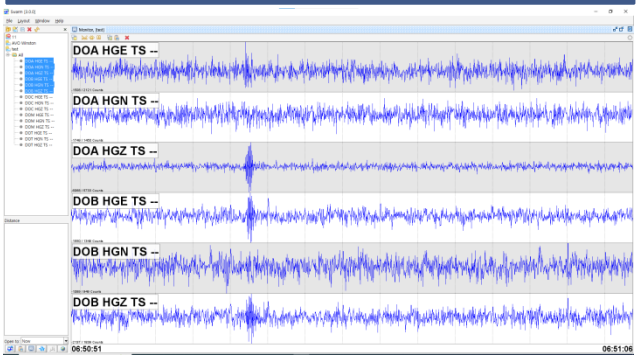
EQ-Alarmer Use Example Diagram



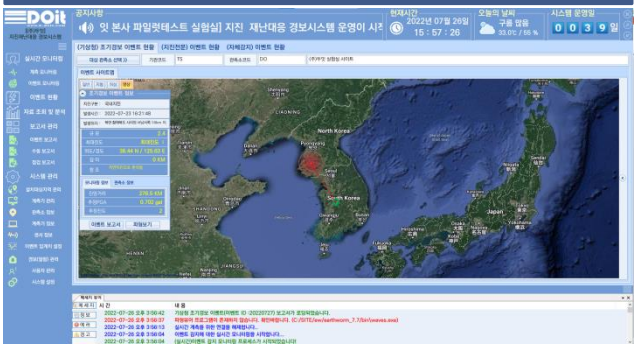
02 EQ-Alarmer Software Features

Real-time Measurement Management Monitoring

Real-time Measurement Wave Form Monitoring



Earthquake Alert Event Information Monitoring



Event Report

- ○ Multiple surveillance with data information
- ○ 3-stage alarm issuance based on event trigger processing
- ○ Event results report
- ○ Real-time monitoring/data storage and transmission/analysis
- ○ Reception status/Event occurrence status/System status
- ○ Estimated seismic intensity information

※ Implementation of Earhworm and SeedLink module linkage control function for seismometer linkage

※ Implementation of raw data and MMA data linkage processing module

※ Implementation of QSCD20 data collection/storage module

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