JENLOGIX
INDUSTRIAL TECHNOLOGY PARTNER

PX-01 Cube
Smart Alarm Server

Local Site Warning

IN THE EVENT OF EARTHQUAKE
PROVIDES A VISIBLE AND AUDIBLE WARNING AN ALARM
ENHANCE HEALTH AND SAFETY AT WORK

Overview

The cost effective **Palert** seismic sensor solution can be used in critical industrial environments integrated with existing control systems to prevent equipment or facilities damage caused by an earthquake. It can also be used to indicate the structural health of a building after a shock.

The **PX-01 Cube** is an intelligent wall-mounted earthquake alarm which can operate stand alone connected to Palerts or through a network linked to a central warning system.

Key Benefits

- Industrial grade large size colour touch display interface with a separate high brightness three-colour LED indicator, providing visible warning
- Regional warning: direct access to a central server for detailed earthquake warning. Messages received can be forwarded to other Cube units providing a substantial increase in warning coverage
- With high-resolution speakers, pre-recorded voice or high-decibel warning sound can be played
- The device is equipped with three sets of relay output contacts, to control external devices or drive warning lights. The alarm thresholds are configurable
- Ability to send MQTT alert message (IoT)

Applications

- Water mains Pumping/Distribution stations
- Petrochemical Refineries
- Hazardous substances management in industrial environments
- Mining Operations
- Waste Control
- Tilt Bridges, Tunnels
- Land based Oil Exploration operations
- Geothermal Plants, Wind farms, Hydro Electric Plants
- Hospitals
- Ski fields, Museums, Theatres.
- Subways, Trains, Trams
- Structural Building Assessment

Details

The PX-01 Cube is an alarm unit that is triggered by the Palert devices in an earthquake warning network. The PX-01 Cube completes the full earthquake warning solution including the PX-01 Controller and Palert/Palert+ (P wave seismographs). It automatically alarms for both local warning and regional seismic systems.

The Cube receives details from either a group of Palert devices and/or via a central warning network. The Cube will then display the Earthquake Alarm, Timing and current P-wave warning, or S-wave alarm for the current earthquake.

In addition, the Cube can also display any text information received, for example information from a central warning system, tsunami information or aftershocks information.

By providing a complete solution for Earthquake warning, the Cube, PX-01 and Palerts can help in disaster reduction with warnings, system control/shutdown, building structural health, and ongoing warning for earthquakes including aftershocks, helping to reduce the effect of any disaster.

Specification

- Built-in 7" industrial grade touch screen
- High decibel horn (4Ω)
- High-resolution three-color 50 ΦLED (RYG)
- Built-in clock accuracy (RTC): ± 60 seconds / year
- Power: 12 Watt (@ 24VDC)

Environment

- Operating temperature: -20 ° C to + 70 ° C
- Relative humidity: 5 to 90% RH, non-condensing
- Dimension (W x H x D): 300mm x 350mm x 122mm
- Weight: 5.8 kg

Palert

Background

Palert is a family of advanced earthquake P-wave alarm detector systems developed by San Lien in Taiwan and represented by Jenlogix in Oceania.

Palert is a P-wave sensor equipped with MEMS accelerometers for 16 bit output resolution. When integrated into a network using SCADA or the dedicated controller, the Palert provides the ability to trigger digital outputs enabling warnings and other actions to occur before or during an earthquake.

With Modbus TCP/RTU capabilities, it is very easy to integrate Palerts with industrial applications, such as PLC, HMI and SCADA. The Palert can stream to 2 hosts and connect to 5 Modbus clients at the same time.

See www.earthquakeearlywarning.systems for more information.

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