



Sanlien Technology Corp.

# PX-01



Earthquake Central Datalogger & Control Unit

Be the frontier of environmental monitoring

[www.sanlien.com](http://www.sanlien.com)

## Introduction

PX-01 is a 1U rack-type smart earthquake central datalogger featuring dynamic voice alarms and relay control outputs with the ability to connect up to 5 Sanlien seismic sensors. PX-01 is equipped with an LCD screen for parameters, system state-of-health, and real-time value display. Moreover, it supports NTP time calibration, acting as both the server and client.

The N-of-M voting algorithm is built in PX-01, by that the onsite earthquake early warning system is able to trigger actions for emergency shutdown, voice alarm broadcasting, and text message delivering via SMS or LINE App. The flexible and open Modbus protocol is provided for users to integrate PX-01 into SCADA, MES, or other management programs easily.

Not only Sanlien seismic sensors are able to feed data into PX-01 for real-time seismic monitoring and onsite control outputs, but also 3rd-party accelerographs can be integrated via the SeedLink protocol to achieve this purpose. Event data and logs are stored in PX-01 micro SD card and feasible to be forwarded on to users' cloud by the FTP function.

In sum, PX-01 is a cost-effective datalogger for regional/onsite earthquake early warning, structural health monitoring, and any vibration applications.



## Key Features



Easy Access by  
Built-in Web GUI



Onsite Early Warning



Regional  
Early Warning



IoT (MQTT)



Modbus Protocol



NTP Server or Client

## Applications

- ✓ Earthquake Early Warning System (EEWS)
- ✓ Structural Health Monitoring (SHM)
- ✓ Rapid Structural Health Diagnostic (RSHD)

## Best Suited



Manufacturing Plants



Public Facilities



Large-scale Infrastructure

## Specifications

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Built-in Watch Dog Function | 10 sec                                    |
| CPU                         | ARM1176JZF-S 700 MHz                      |
| Display                     | LCD, 2 lines x 20 characters              |
| Network Module              | 10/100 Base-TX Ethernet Controller        |
| Storage                     | 32 GB (expandable)                        |
| Time Synchronization        | NTP                                       |
| Relay                       | 3 sets                                    |
| Extended Applications       | Weather Sensors (Rain, Wind, Temp, Humid) |
| Power Consumption           | 4 W@110 VAC                               |
| Power Supply                | 110 or 220 VAC                            |
| Relative Humidity           | 5 - 90% RH, no condensate                 |
| Working Temperature         | -20 °C to 70 °C                           |
| Dimension (L x W x H)       | 550 x 425 x 44.5 mm                       |

\*All prices, features, and specifications are subject to change without prior notice.

## Be the frontier of environmental monitoring

Sanlien Technology is committed to making environments safe for humans. Hence, we insist on continuing R&D investments, perfecting our manufacturing of monitoring systems, and expanding into Smart City and IoT monitoring. With more than 1,000 local and international customers, Sanlien is trusted by global customers with high standards. By working with renowned agents around the world, we ensure the optimal performance and reliability of our services. With 50 years of profound experience in Taiwan, Sanlien has become the most exceptional provider of measuring technologies in the Asia-Pacific region. Sanlien has conceptualized the idea of being a global partner into a three-in-one strategy: long-term deployment of globalization, integration of local resources, and localized operations. We shall march on step by step with the stamina for running a marathon.

©2022 Sanlien Technology Corp. All rights reserved.



Sanlien Technology Corp.

+886-2-2708-1730 | [www.sanlien.com](http://www.sanlien.com) | [sales@sanlien.com](mailto:sales@sanlien.com)