SENSE IT
TECHNOLOGIES
MONITORING AND CONTROL SOLUTIONS



LoRaWAN Power State Sensor - 220V Input

SKU: SI-LRW-POWR-220-001

Monitor the presence or loss of 220V AC power in real time using a compact wireless power state sensor. Designed for equipment, refrigeration, pumps, lighting, electrical panels and critical infrastructure, it provides immediate notification of power failures to minimise downtime and operational risk.

OVERVIEW

The Sense It LoRaWAN Power State Sensor continuously monitors the presence of a 220V AC supply and immediately detects when power is lost or restored. Combining an industrial wireless input module with an integrated optocoupler and pre-wired 3-point mains plug, it provides a simple and reliable solution for monitoring powered equipment without modifying existing electrical installations.

The sensor is ideal for monitoring refrigeration units, freezers, cold rooms, server rooms, network cabinets, pumps, irrigation systems, lighting circuits, electrical distribution boards, manufacturing equipment and other critical assets where loss of mains power requires immediate attention.

Installation is quick and non-invasive. Simply plug the sensor into a standard South African 220V outlet, connect the monitored supply through the integrated sensing plug, and begin monitoring. The optocoupler provides electrical isolation between the mains supply and the sensing electronics, ensuring safe operation while accurately detecting whether AC power is present.

When connected to the Sense It monitoring platform, users can remotely view the current power status of every monitored asset, receive instant notifications when power is lost or restored, and analyse historical outage events across multiple sites. Alert notifications can be delivered via WhatsApp, email, Telegram or in-app notifications, allowing maintenance teams to respond quickly to unexpected outages.

The battery-powered wireless design continues operating during power failures, ensuring that loss of mains power can still be reported. This makes the sensor particularly suitable for remote sites where rapid fault detection is essential to protect equipment, products and business operations.

KEY FEATURES

- Detects presence of 220V AC power
- Immediately detects power failures
- Reports when power is restored
- Integrated electrical isolation
- Pre-wired 3-point South African mains plug
- No modification of existing equipment required
- Battery-powered operation
- Continues operating during power outages
- Suitable for indoor industrial environments
- Real-time power status monitoring

- Historical outage logging
- Supports instant alarm notifications
- Remote monitoring through the Sense It platform
- Simple plug-and-play installation
- Suitable for refrigeration monitoring
- Suitable for pump monitoring
- Suitable for electrical distribution boards
- Low maintenance operation
- Long battery life
- Compact industrial design

TECHNICAL SPECIFICATIONS

General

- Measurement type: 220V AC power presence detection
- Detection method: Optically isolated AC sensing
- Application: Mains power status monitoring

Performance

- Detects power loss and restoration
- Real-time power state monitoring
- Historical outage event logging

Electrical

- Monitored input: 220–240 VAC 50 Hz
- Electrical isolation: Integrated optocoupler
- Input connection: Pre-wired 3-point South African mains plug

Environmental

- Operating temperature: -30 °C to +60 °C
- Operating humidity: 0–95% RH non-condensing
- Suitable for indoor installations

Power

- Battery powered
- Replaceable lithium battery
- Continues operating during monitored power failures

Physical

- Compact enclosure
- Integrated mains sensing cable
- LED status indicator

Installation

- Plug-and-play installation
- No modification of monitored equipment required
- Suitable for standard South African 220V outlets

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