

Power Outage Monitoring Sensor

OVERVIEW:

The Dragino POM01 series is a [Power Outage Monitoring Sensor](#) designed for Internet of Things (IoT) applications. It monitors the status of AC mains power and reports power outage events, low-voltage conditions, and periodic status data to a cloud platform, making it suitable for remote monitoring scenarios with wide coverage and low power consumption. It can upload the value via wireless to [LoRaWAN](#), [NB-IoT](#), [LTE-M](#), or [LTE CAT-1](#) Server.

The POM01 series uses wireless technology to enable ultra-long-range communication at low data rates. This technology provides high interference immunity while minimizing current consumption, allowing reliable operation in distributed and hard-to-reach locations.

The device adopts optocoupler isolation technology to safely detect the status of a 220 VAC / 110VAC power supply. It [supports both power outage triggering \(<17v\)](#) and [low-voltage triggering \(180v\)](#), enabling immediate alarm reporting when power is lost or when the voltage drops abnormally below a predefined threshold.

POM01 series is normally [powered by 85 ~ 305 VAC directly](#) and can [automatically switch to an internal Li-ion backup battery during a power outage](#), ensuring continuous monitoring. It also supports data logging, storing data locally when the network is unavailable and uploading it once the connection is restored.

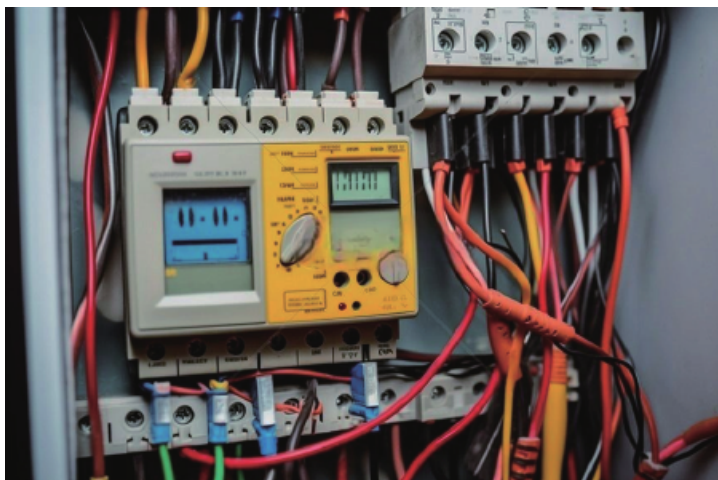
The POM01 series [supports BLE configuration and wireless OTA firmware updates](#) for easy deployment and maintenance.



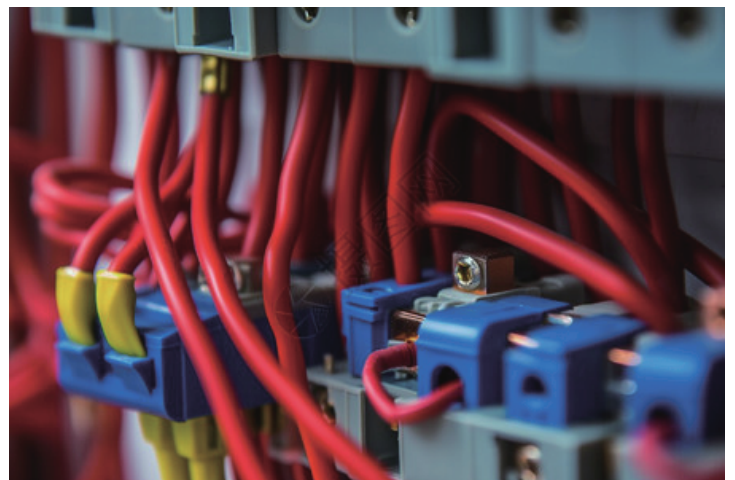
Features:

- Power Outage Monitoring (<17v)
- Low Voltage Monitoring (< 180v)
- Back up rechargeable 1000mAh battery

Applications:



Electricity Meter



Line Voltage

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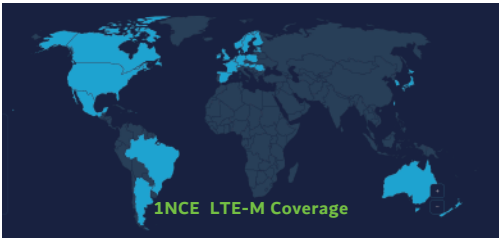
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Wireless & Battery Selection

	POM01-L	POM01-N	POM01-C	POM01-K
Wireless	LoRaWAN	NB-IoT	NB-IoT & LTE-M	LTE CAT-1
Module	LA66	BC660K-GL	BG95-M2	EG800xx
Frequency Band	EU433, CN470, EU868, IN865, KR920, MA869, AU915, US915, AS923-1, AS923-2, AS923-3, AS923-4	CAT-NB2: B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B28/B66/B70/B85	CAT-NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 LTE-M: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	EU: For European, Asia, Australia, LTE-FDD: B1/3/5/7/8/20/28 LA: For Latin America, LTE-FDD: B2/3/4/5/7/8/28/66 NA: For North America, LTE-FDD: B2/4/5/12/13/66
Uplink Method	MQTT, MQTTs, TCP, UDP or CoAP	MQTT, MQTTs, TCP, UDP or CoAP	MQTT, MQTTs, TCP, UDP or CoAP	MQTT, MQTTs, TCP or UDP
Battery	1000mAh	1000mAh	1000mAh	1000mAh
Battery Type	Li-ion	Li-ion	Li-ion	Li-ion
Rechargeable	Yes	Yes	Yes	Yes
Power Input	85 ~ 305 VAC	85 ~ 305 VAC	85 ~ 305 VAC	85 ~ 305 VAC
GNSS	--	--	Yes	--
BLE Config	Yes	Yes	Yes	Yes
IP Rate	IP54	IP54	IP54	IP54

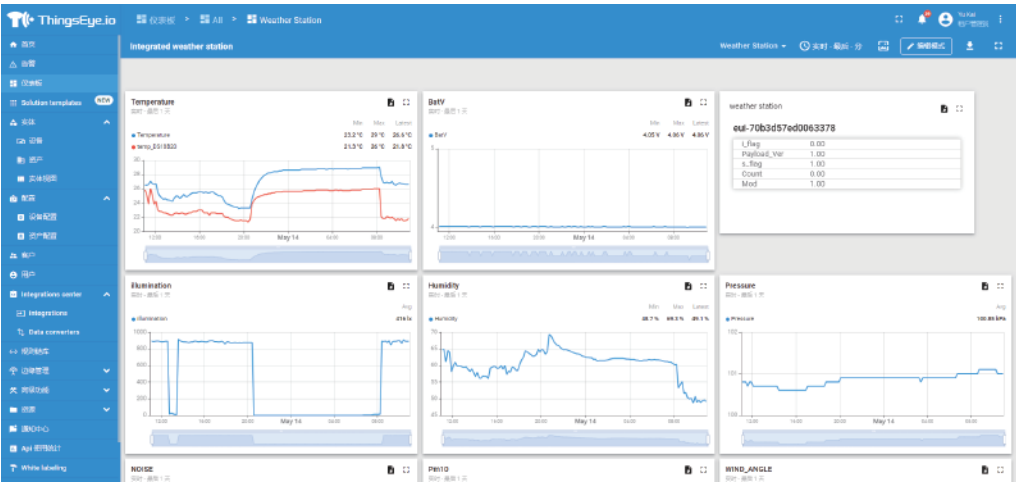
What is 1T version for Cellular version?

The 1T version of NB-IoT/LTE-M/LTE CAT-1 Power Outage Monitoring Sensor is with 1) 1NCE SIM Card & 2) ThingsEye Pre-configured.
1NCE SIM Card (10 Years Cellular service with 500MB Data Traffic, Enough for devices to uplink 10 years at 1hour interval).



ThingsEye.io platform:

1T version with ThingsEye IoT service pre-installed. This save a lot of work from user side to configure IoT server.
Below is Dash Board is the demo in ThingsEye.io.



Ordering Information

Example:

POM01-L-EU868

Model Name:

POM01 (The power outage monitoring sensor is usually powered directly by 85~305 VAC and can automatically switch to an internal backup 1000mAh lithium-ion battery during a power outage to ensure continuous monitoring.)

Wireless Tech:

L: LoRaWAN
N: NB-IoT
C: NB-IoT & LTE-M
K: LTE CAT-1

Frequency Band or Cellular SIM:

Frequency Band:

For LoRaWAN version: EU433, CN470, EU868, IN865, KR920, MA869, AU915, US915, AS923-1, AS923-2, AS923-3, AS923-4

For CAT-1 version: **EU:** For European, Asia, Australia
 LA: For Latin America
 NA: For North America

Cellular SIM option (For NB-IoT, LTE-M, CAT-1):

GE -- General version (Exclude SIM card)
1T -- With 1NCE & ThingsEye Pre-configured